



THE SCIENCE OF READY<sup>SM</sup>

# SOUTH 4 GROUP FIRE

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Port Neches, TX

Preliminary Cumulative Water Sampling

Summary

January 3, 2020

Project #112312

## 1.0 Introduction

On November 27, 2019 at approximately 04:00 Central Standard Time (CST), TPC Group requested that CTEH® provide water sampling support in response to a tank fire at their facility located in Port Neches, Texas. CTEH® arrived on-site on November 27, 2019 at approximately 08:00 CST and began real-time air monitoring and analytical air sampling operations surrounding the site of the event. Upon arrival on site, TPC Group requested CTEH® to perform water sampling activities associated with surrounding surface waters and potential fire water runoff.

Surface water sampling efforts have been largely focused on areas in proximity to outfall locations as these reflect the downstream movement of potential effluent from the TPC facility and neighboring industries. Water samples from two background locations were also collected for results comparison, in addition to one drinking water location.

As of December 11, 2019, an Environmental Sampling Reduction Plan was approved by Unified Command (UC) to adjust sampling locations, frequency of sampling, and target analytes. As of December 19, 2019, a second reduction in environmental sampling was approved by UC to adjust ongoing surface water sampling from daily to weekly sampling. This cumulative report includes surface and drinking water samples collected from November 27, 2019 to January 2, 2020 and surface water sample results received as of January 2, 2020.

## 2.0 Methods

### 2.1 Water Sampling

CTEH® developed and implemented an Environmental Sampling and Analysis Plan (ESAP) to document and quantify the potential release of runoff liquids from the incident. The ESAP was approved by local, state, and federal representatives of the on-site UC. In accordance with the ESAP, surface water samples were collected at various locations to delineate the extent and nature of potential impact related to the fire and associated response activities. Following the approval of the Environmental Sampling Reduction Plan by UC, asbestos sampling was discontinued after December 11, 2019. A sampling summary, including locations, descriptions and samples collected to date are listed in **Table 1**. All samples were sent to third-party National Environmental Laboratory Accreditation Program (NELAP)-accredited laboratories for analysis using state or federal analytical methods, listed in **Table 2**. One location was also analyzed as a drinking water sample using the analytical methods listed in **Table 3**. To ensure completeness, each laboratory report is also undergoing data verification and/or validation by an independent contractor. Some laboratory results have not undergone full data verification and/or validation at the time of this report.

The naming scheme for sampling involves the following:

PN = Port Neches; TX = Texas; date (MonthXXDayXX); XY (X = surface water, Y = background); Sample identification serial number by day (XXX); Sample team A or B. (Example: PNTX1201X010A)

**Table 1. Surface Water Sampling Locations and Descriptions (Attachment A)**

Location Code	Location Description	Sample Frequency*	Samples Collected to Date	Results Received to Date (VOCs)	Results Received to Date (Asbestos)	Sample Start Date	Sample End Date
WS000	Background; Huntsman Dock at Neches River; NE of TPC	On Demand	1	1	N/A	11/27/2019	11/27/2019
WS001	Port Neches, near Atlantic Road; downstream from Outfall 001 (permitted discharge location)	On Demand	24	23	20	11/28/2019	12/9/2019
WS002	Water Treatment Wetlands Outlet; Outfall 004 (permitted discharge location)	Weekly	34	32	20	11/27/2019	Ongoing
WS003	Orchard Avenue on Bridge over 001 Canal	Weekly	37	33	24	11/28/2019	Ongoing
WS004	Atlantic Road N of Atlantic Canal; upstream of Outfall 001 (permitted discharge location)	On Demand	22	22	20	11/29/2019	12/9/2019
WS005	South of Facility	On Demand	1	1	0	11/29/2019	11/29/2019
WS006	N of Hwy 336 in a Controlled Level Water Structure; Outfall 001 canal	Weekly	33	30	19	11/29/2019	Ongoing
WS007	N end of LNVA Canal to City of Port Neches; Park St. east of Baseball Field; raw water	On Demand	1	1	1	11/29/2019	11/29/2019
WS008**	City of Port Neches Water Plant at Drinking Water Faucet	On Demand	3	2	1	11/30/2019	Ongoing
WS009	Background; Collier's Ferry Park, south of Boat Ramp, Beaumont, TX	On Demand	6	6	3	12/1/2019	Ongoing
WS010	TPC effluent to Joint Waste Water Treatment Plant (JWWTP); South of 366	Weekly	14	12	3	12/1/2019	Ongoing

Location Code	Location Description	Sample Frequency*	Samples Collected to Date	Results Received to Date (VOCs)	Results Received to Date (Asbestos)	Sample Start Date	Sample End Date
WS011	TPC Dock; water inlet	On Demand	1	1	1	12/2/2019	12/2/2019
WS014	Outfall 301; South of TPC facility at drainage culvert; JWWTP discharge from polishing ponds (permitted discharge location)	On Demand	11	10	8	12/3/2019	Ongoing
WS015	Outfall 201 (Permitted discharge); SE corner of TPC facility	On Demand	8	8	7	12/4/2019	12/9/2019
WS016	Huntsman ditch; Division E	On Demand	3	2	1	12/6/2019	12/10/2019
WS017	JWWTP holding pond	Weekly	16	15	0	12/5/2019	Ongoing
WS021	Upstream of Huntsman ditch	On Demand	1	1	1	12/8/2019	12/8/2019
WS022	W002 Block 6 Pond, NE of incident site	On Demand	1	1	1	12/8/2019	12/8/2019
WS023	Neches River downstream of confluence with Molasses Bayou	Weekly	9	8	1	12/11/2019	Ongoing
WS024	Molasses Bayou between Neches River and Atlantic Rd.	On Demand	4	4	1	12/11/2019	12/14/2019
<b>Estimated Totals to Date</b>			<b>231</b>	<b>215</b>	<b>131</b>		

\*Additional samples may be collected.

\*\*Samples collected at WS008 on 11/30/2019 were analyzed as surface water samples (EPA SWA-846 8260b/8260c); samples collected after 11/30/2019 were analyzed as drinking water samples (EPA 524.2/525.2).

**Table 2. Surface Water Sample Analytical Methods**

<b>Analysis</b>	<b>Method</b>	<b>Laboratory</b>
Volatile Organic Compounds (VOCs) + TICs	EPA SWA-846 8260b	Pace Analytical Services
Semi-volatile Organic Compounds (SVOCs)	EPA SWA-846 8270c (SCAN + SIM) 17 PAH	Pace Analytical Services
Ethylene Glycol	US EPA Methods 8015	Pace Analytical Services
Texas Total Petroleum Hydrocarbon (TX-TPH)	TX-1005	Pace Analytical Services
PFAS (PFOS, PFOA, PFHxS Only)	EPA 537M	Pace Analytical Services
Total Organic Carbon (TOC)	SM 5310C	Pace Analytical Services
Oil and Grease	Method 1664	Pace Analytical Services
Asbestos	EPA 100.2	EMSL Analytical, Inc.

**Table 3. Drinking Water Sample Analytical Methods**

<b>Analysis</b>	<b>Method</b>	<b>Laboratory</b>
Volatile Organic Compounds (VOCs) + TICs	EPA 524.2	Pace Analytical Services
Semi-volatile Organic Compounds (SVOCs)	EPA 525.2	Pace Analytical Services

## 2.2 Health-Based Screening Comparisons

Results from surface water samples were compared to applicable health-protective screening levels or background concentrations. It is important to note that the methods utilized to analyze surface water are also able to detect compounds unrelated to the TPC fire; therefore, the detection of a compound does not mean that the compound is directly related to the incident.

Because the Neches River Basin associated with the TPC facility and Joint Waste Water Treatment Plant (JWWTP) is not classified as drinking water sources but may be subject to community activities such as fishing, surface water samples were screened against the TCEQ's Tier 1 Surface Water Risk-Based Exposure Limit (RBEL) and Contact Recreation Water Protective Concentration Limits (PCLs). According to the Texas Risk Reduction Program (TRRP), *"...when a water body is not classified as a drinking water source, the TSWQS allow surface water quality standards to be set based solely on consideration of uptake of COCs into fish/shellfish and aquatic life criteria and it may be necessary to evaluate contact recreation*

(i.e., incidental ingestion and dermal contact with surface water)<sup>1</sup>.” A screening level of 7.0 million fibers/L has been selected for asbestos in surface water samples based on the United States Environmental Protection Agency (USEPA) water quality criteria<sup>2</sup>. The selection of the use of these screening levels was an agreed decision by Unified Command; however, it should be noted that this drinking water standard is only utilized for reference, as it is not applicable to surface water samples.

Water samples analyzed as drinking water sources (WS008) were screened against the available TCEQ Drinking Water Maximum Contaminant Levels (MCLs). When MCLs were not available, drinking water sample results were compared to USEPA National Primary Drinking Water Regulations (NPDWR).

### 3.0 Surface Water Sampling Results

A map of all surface water sampling locations is provided in **Attachment A**. A cumulative detection summary for compounds of interest for surface water samples collected from November 27, 2019 through January 2, 2020 based on sampling location is provided in **Attachment B**. Daily summaries of surface water sampling results are provided in **Attachment C**. A summary of drinking water sampling results is provided in **Attachment D**. Daily surface water results for asbestos are provided in **Attachment E**.

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<sup>1</sup> TCEQ “Tier 1 Contact Recreation PCLs,” 2006

<sup>2</sup> <https://www.epa.gov/wqc/national-recommended-water-quality-criteria-human-health-criteria-table>

# Attachment A

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## Water Sampling Locations



-  Site Location
-  Water Sampling Location
-  Divisions

# Attachment B

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## Cumulative Detection Summaries

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS000	Total Organic Carbon	n/a †	n/a ‡	1	1	4.760	4.760	4.76 - 4.76 mg/L

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process. † No Surface Water RBEL available  
<sup>2</sup> Surface Water Risk Based Exposure Limit ‡ No Contact Recreation PCL available  
<sup>3</sup> Tier 1 Contact Recreation Water PCL  
<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected.  
 (J) Quantitation is approximate  
 (R) OC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS001	1-Methylnaphthalene	n/a †	4800 µg/L	22	16	0.789	0.617	0.058 - 8.87 µg/L
	1,2,4-Trimethylbenzene	n/a †	3260 µg/L	22	10	0.345	0.212	0.223 (J) - 0.469 (J) µg/L
	1,3-Butadiene	n/a †	n/a ‡	21	20	17.884	17.044	0.857 - 99.4 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	22	16	7.461	5.454	1.16 - 26.1 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	22	1	1.000	0.795	1 (R) - 1 (R) µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	22	14	0.960	0.623	0.04 - 8.5 µg/L
	> C12-C28	n/a †	n/a ‡	22	6	13,213.500	3,651.477	185 - 30,000 µg/L
	Acenaphthene	90 µg/L	2440 µg/L	22	17	0.542	0.421	0.013 - 6.38 µg/L
	Acenaphthylene	n/a †	3260 µg/L	22	20	0.971	0.887	0.04 - 4.91 µg/L
	Acetone	n/a †	780000 µg/L	22	16	5.500	4.609	2.57 (J) - 11.9 (J) µg/L
	Anthracene	1317 µg/L	10700 µg/L	22	11	0.177	0.110	0.04 - 0.635 µg/L
	Benzene	581 µg/L	235 µg/L	22	18	5.233	4.300	0.273 - 24.4 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a †	22	9	0.130	0.064	0.025 (J) - 0.447 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a †	22	9	0.110	0.050	0.013 - 0.353 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a †	22	8	0.105	0.048	0.013 - 0.339 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a ‡	22	8	0.112	0.046	0.013 (J) - 0.283 (J) µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a †	22	4	0.092	0.033	0.025 - 0.186 µg/L
	Chloroform	7697 µg/L	2350 µg/L	22	21	2.289	2.189	0.377 (J) - 9.48 (J) µg/L
	Chrysene	2.52 µg/L	n/a †	22	9	0.143	0.069	0.025 - 0.449 µg/L
	Dibenz(a,h)anthracene	0.0013 µg/L	n/a †	22	3	0.100	0.030	0.025 (J) - 0.209 (J) µg/L
	Ethylbenzene	1867 µg/L	12800 µg/L	22	14	1.829	1.200	0.269 - 8.19 µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	22	10	0.504	0.301	0.29 - 0.855 mg/L
	Fluoranthene	20 µg/L	n/a †	22	21	0.328	0.328	0.013 - 2.57 µg/L
	Fluorene	70 µg/L	2110 µg/L	22	17	0.531	0.418	0.04 - 3.73 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a †	22	7	0.110	0.041	0.013 - 0.272 µg/L
	Isopropylbenzene (Cumene)	n/a †	3440 µg/L	22	1	0.790	0.131	0.79 (J) - 0.79 (J) µg/L
	m,p-Xylene	n/a †	n/a ‡	22	17	1.451	1.144	0.286 - 5.22 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	22	8	0.653	0.403	0.454 (J) - 0.94 (J) µg/L
	n-Butylbenzene	n/a †	1200 µg/L	22	1	0.200	0.105	0.2 (J) - 0.2 (J) µg/L
	Naphthalene	n/a †	2550 µg/L	20	19	2.270	2.055	0.026 - 16.1 µg/L
	o-Xylene	n/a †	227000 µg/L	22	13	0.875	0.558	0.205 - 2.4 µg/L
	Oil and Grease	n/a †	n/a ‡	22	2	3.267	1.111	1.7 - 6.4 mg/L
	PFHxS	n/a †	n/a ‡	21	21	116.224	116.224	13.4 - 1,180 ng/L
PFOA	n/a †	n/a ‡	23	22	15.015	15.015	3.53 - 48 ng/L	
PFOS	n/a †	n/a ‡	21	21	284.519	284.519	43.7 - 865 ng/L	
Phenanthrene	n/a †	1070 µg/L	22	21	0.883	0.883	0.057 - 5.03 µg/L	
Pyrene	30 µg/L	n/a †	22	21	0.404	0.404	0.025 - 3.19 µg/L	
Styrene	n/a †	29800 µg/L	22	9	2.372	1.029	0.209 - 5.98 µg/L	
tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	22	22	19.481	19.481	1.83 - 110 µg/L	
Toluene	1000 µg/L	16500 µg/L	22	11	2.080	1.090	0.652 - 5.98 µg/L	
Total Organic Carbon	n/a †	n/a ‡	22	21	26.946	26.946	2.01 - 64.6 mg/L	
Total TPH (C6-C35)	n/a †	n/a ‡	22	6	13,213.500	3,644.818	185 (J) - 30,000 (J) µg/L	
Xylene (total)	n/a †	24000 µg/L	22	15	2.365	1.676	0.451 - 7.62 µg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected.

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS002	1-Methylnaphthalene	n/a †	4800 µg/L	31	13	0.135	0.070	0.043 - 0.341 µg/L
	1,3-Butadiene	n/a †	n/a ‡	31	17	4.223	2.431	1.21 - 12.5 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	31	2	2.585	0.260	2.36 - 2.81 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	31	1	1.000	0.871	1 (R) - 1 (R) µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	31	15	0.109	0.063	0.043 - 0.271 µg/L
	4-Methyl-2-pentanone	n/a †	52700 µg/L	31	4	1.760	0.314	1.12 (J) - 2.82 (J) µg/L
	> C12-C28	n/a †	n/a †	31	14	4,320.071	1,984.677	149 - 26,500 µg/L
	Acenaphthene	90 µg/L	2440 µg/L	31	20	0.291	0.190	0.125 - 0.459 µg/L
	Acenaphthylene	n/a †	3260 µg/L	31	18	0.218	0.148	0.139 - 0.293 µg/L
	Acetone	n/a †	780000 µg/L	31	23	6.521	5.667	2.46 (J) - 17.9 (J) µg/L
	Benzene	581 µg/L	235 µg/L	31	12	1.283	0.553	0.362 - 2.96 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a †	31	2	0.066	0.017	0.056 (J) - 0.076 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a †	31	2	0.071	0.011	0.07 - 0.072 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a †	31	2	0.060	0.011	0.047 - 0.073 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a †	31	2	0.083	0.012	0.074 (J) - 0.102 (J) µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a †	31	2	0.085	0.019	0.069 - 0.1 µg/L
	C6-Cl2	n/a †	n/a †	31	1	454.000	65.919	454 - 454 µg/L
	Chloroform	7697 µg/L	2350 µg/L	31	4	0.491	0.150	0.374 (J) - 0.622 (J) µg/L
	Chrysene	2.52 µg/L	n/a †	31	2	0.079	0.017	0.073 - 0.085 µg/L
	Dibenz(a,h)anthracene	0.0013 µg/L	n/a †	31	2	0.076	0.018	0.049 (J) - 0.103 (J) µg/L
	Ethylbenzene	1867 µg/L	12800 µg/L	31	7	0.333	0.153	0.22 - 0.522 µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	31	10	0.480	0.245	0.271 - 0.843 mg/L
	Fluoranthene	20 µg/L	n/a †	31	3	0.032	0.009	0.015 - 0.044 µg/L
	Fluorene	70 µg/L	2110 µg/L	31	11	0.072	0.040	0.049 - 0.092 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a †	31	2	0.099	0.013	0.072 - 0.125 µg/L
	m,p-Xylene	n/a †	n/a †	31	10	0.437	0.209	0.311 - 0.814 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	31	4	0.829	0.288	0.543 (J) - 1 (J) µg/L
	Naphthalene	n/a †	2550 µg/L	31	25	0.457	0.401	0.083 - 1.18 µg/L
	o-Xylene	n/a †	227000 µg/L	31	4	0.240	0.130	0.205 - 0.291 µg/L
	Oil and Grease	n/a †	n/a †	31	10	2.415	1.450	1.7 - 4.5 mg/L
	PFHxS	n/a †	n/a †	29	27	117.152	117.152	42.4 - 238 ng/L
	PFOA	n/a †	n/a †	31	30	19.817	19.817	8.43 - 34 ng/L
	PFOS	n/a †	n/a †	31	30	270.065	270.065	103 - 542 ng/L
Phenanthrene	n/a †	1070 µg/L	31	7	0.037	0.014	0.026 - 0.065 µg/L	
Pyrene	30 µg/L	n/a †	31	2	0.037	0.014	0.031 - 0.043 µg/L	
Styrene	n/a †	29800 µg/L	31	6	0.362	0.151	0.243 - 0.476 µg/L	
tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	31	30	27.199	27.199	3.75 - 122 µg/L	
Toluene	1000 µg/L	16500 µg/L	31	8	1.142	0.369	0.401 - 1.62 µg/L	
Total Organic Carbon	n/a †	n/a †	31	29	35.148	35.148	25.9 - 56.1 mg/L	
Total TPH (C6-C35)	n/a †	n/a †	31	14	4,352.214	1,994.452	149 (J) - 26,500 (J) µg/L	
Xylene (total)	n/a †	24000 µg/L	31	6	0.682	0.293	0.409 - 1.11 µg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected.

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS003	1-Methylnaphthalene	n/a †	4800 µg/L	33	23	0.825	0.609	0.06 - 4.14 µg/L
	1,2,4-Trimethylbenzene	n/a †	3260 µg/L	33	10	0.437	0.202	0.208 (J) - 1.68 (J) µg/L
	1,3-Butadiene	n/a †	n/a ‡	33	23	31.993	22.374	0.604 - 182 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	33	27	6.976	5.726	2.01 - 43.2 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	33	1	1.000	0.879	1 (R) - 1 (R) µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	33	23	0.565	0.402	0.047 - 3.98 µg/L
	4-Methyl-2-pentanone	n/a †	52700 µg/L	33	11	2.377	0.859	0.592 (J) - 4.52 (J) µg/L
	>C12-C28	n/a †	n/a ‡	33	23	4,911.348	3,441.970	201 - 41,200 µg/L
	>C28-C35	n/a †	n/a ‡	33	2	4,880.000	353.955	3,570 - 6,190 µg/L
	Acenaphthene	90 µg/L	2440 µg/L	33	21	0.670	0.470	0.119 - 3.34 µg/L
	Acenaphthylene	n/a †	3260 µg/L	32	28	1.616	1.418	0.306 - 4.6 µg/L
	Acetone	n/a †	780000 µg/L	33	28	16.266	14.512	4.38 (J) - 35.7 (J) µg/L
	Anthracene	1317 µg/L	10700 µg/L	33	26	0.247	0.206	0.047 - 1.84 µg/L
	Benzene	581 µg/L	235 µg/L	33	26	3.377	2.880	0.256 - 69.2 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a †	33	22	0.136	0.100	0.036 (J) - 0.992 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a †	33	19	0.145	0.100	0.026 - 1.04 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a †	33	19	0.127	0.088	0.022 - 0.896 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a †	33	18	0.112	0.075	0.024 (J) - 0.439 (J) µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a †	33	10	0.098	0.038	0.028 - 0.385 µg/L
	Bromodichloromethane	275 µg/L	477 µg/L	33	21	0.791	0.561	0.409 - 1.28 µg/L
	Bromoform	1060 µg/L	4300 µg/L	33	3	0.791	0.188	0.391 (J) - 1.42 (J) µg/L
	C6-C12	n/a †	n/a ‡	33	6	4,396.333	842.818	948 - 15,100 µg/L
	Chloroform	7697 µg/L	2350 µg/L	33	31	10.940	10.940	1.29 (J) - 18.1 (J) µg/L
	Chrysene	2.52 µg/L	n/a †	33	24	0.122	0.100	0.026 - 0.999 µg/L
	Dibenz(a,h)anthracene	0.0013 µg/L	n/a †	33	2	0.042	0.016	0.041 (J) - 0.043 (J) µg/L
	Dibromochloromethane	183 µg/L	383 µg/L	33	1	0.200	0.103	0.2 - 0.2 µg/L
	Ethylbenzene	1867 µg/L	12800 µg/L	33	15	1.452	0.714	0.211 - 13.4 µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	33	13	0.461	0.272	0.27 - 0.809 mg/L
	Fluoranthene	20 µg/L	n/a †	33	31	0.498	0.483	0.044 - 5.27 µg/L
	Fluorene	70 µg/L	2110 µg/L	33	21	0.621	0.440	0.095 - 3.35 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a †	33	20	0.091	0.061	0.02 - 0.39 µg/L
	m,p-Xylene	n/a †	n/a ‡	33	21	1.921	1.259	0.237 - 24.1 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	33	7	1.012	0.567	0.463 (J) - 1.82 (J) µg/L
n-Butylbenzene	n/a †	1200 µg/L	33	1	0.419	0.127	0.419 (J) - 0.419 (J) µg/L	
Naphthalene	n/a †	2550 µg/L	32	24	1.289	0.981	0.035 - 8.65 µg/L	
o-Xylene	n/a †	227000 µg/L	33	12	1.595	0.660	0.289 - 11.1 µg/L	
Oil and Grease	n/a †	n/a ‡	33	18	3.614	2.659	1.5 - 11.1 mg/L	
PFHxS	n/a †	n/a ‡	31	29	88.390	88.390	37.5 - 222 ng/L	
PFOA	n/a †	n/a ‡	33	30	21.936	21.936	8.28 - 43.5 ng/L	
PFOS	n/a †	n/a ‡	32	29	195.056	195.056	42.9 - 605 ng/L	
Phenanthrene	n/a †	1070 µg/L	33	30	1.100	1.001	0.023 - 10.5 µg/L	
Pyrene	30 µg/L	n/a †	33	32	0.543	0.543	0.043 - 5.82 µg/L	
Styrene	n/a †	29800 µg/L	33	17	2.282	1.290	0.204 - 25.3 µg/L	
tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	33	32	30.101	30.101	4.75 - 89.6 µg/L	
Toluene	1000 µg/L	16500 µg/L	33	11	1.900	0.700	0.379 - 12.3 µg/L	
Total Organic Carbon	n/a †	n/a ‡	33	31	41.161	41.161	28.4 - 76.7 mg/L	
Total TPH (C6-C35)	n/a †	n/a ‡	33	24	6,214.625	4,534.348	201 (J) - 48,300 (J) µg/L	
Trichloroethene	71.9 µg/L	1010 µg/L	33	1	0.947	0.126	0.947 (J) - 0.947 (J) µg/L	
Xylene (total)	n/a †	24000 µg/L	33	16	3.627	1.861	0.418 - 35.2 µg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected.

(J) Quantification is approximate

(R) OC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS004	1-Methylnaphthalene	n/a †	4800 µg/L	21	16	0.674	0.519	0.12 - 3.61 µg/L
	1,2,4-Trimethylbenzene	n/a †	3260 µg/L	22	9	0.463	0.248	0.249 (J) - 0.98 (J) µg/L
	1,3-Butadiene	n/a †	n/a ‡	21	19	27.489	26.192	0.741 - 99.1 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	22	18	6.242	5.125	2.1 - 31 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	22	1	1.000	0.018	1 (R) - 1 (R) µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	21	15	0.592	0.430	0.123 - 4.45 µg/L
	4-Methyl-2-pentanone	n/a †	52700 µg/L	22	5	2.648	0.679	1.52 (J) - 3.52 (J) µg/L
	>C12-C28	n/a †	n/a ‡	22	11	3,539.364	1,800.614	271 - 27,400 µg/L
	Acenaphthene	90 µg/L	2440 µg/L	21	14	0.519	0.349	0.077 - 3.13 µg/L
	Acenaphthylene	n/a †	3260 µg/L	21	13	2.414	2.074	0.337 - 23 µg/L
	Acetone	n/a †	780000 µg/L	22	19	11.944	11.007	4.66 (J) - 23 (J) µg/L
	Anthracene	1317 µg/L	10700 µg/L	21	19	0.298	0.272	0.048 - 2.3 µg/L
	Benzene	581 µg/L	235 µg/L	22	19	4.357	3.970	0.243 - 46.5 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a †	21	12	0.173	0.105	0.028 (J) - 1.03 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a †	21	12	0.153	0.091	0.023 - 0.859 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a †	21	12	0.134	0.080	0.026 - 0.633 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a †	21	14	0.113	0.078	0.022 (J) - 0.575 (J) µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a †	21	8	0.068	0.040	0.03 - 0.175 µg/L
	Bromodichloromethane	275 µg/L	477 µg/L	22	14	0.696	0.479	0.266 - 0.95 µg/L
	C6-Cl2	n/a †	n/a ‡	22	1	2,070.000	145.114	2,070 - 2,070 µg/L
	Chloroform	7697 µg/L	2350 µg/L	22	22	10.097	10.097	1.88 (J) - 16.4 (J) µg/L
	Chrysene	2.52 µg/L	n/a †	21	14	0.152	0.106	0.025 - 0.891 µg/L
	Dibenz(a,h)anthracene	0.0013 µg/L	n/a †	21	3	0.105	0.033	0.026 (J) - 0.157 (J) µg/L
	Ethylbenzene	1967 µg/L	12800 µg/L	22	11	1.550	0.825	0.305 - 6.95 µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	22	7	0.456	0.235	0.33 - 0.698 mg/L
	Fluoranthene	20 µg/L	n/a †	21	21	0.543	0.543	0.076 - 5.49 µg/L
	Fluorene	70 µg/L	2110 µg/L	21	14	0.672	0.456	0.132 - 4.45 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a †	21	13	0.099	0.064	0.02 - 0.35 µg/L
	m,p-Xylene	n/a †	n/a †	22	17	1.529	1.205	0.291 - 10 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	22	8	0.875	0.581	0.378 (J) - 1.35 (J) µg/L
	Naphthalene	n/a †	2550 µg/L	21	20	3.919	3.745	0.197 - 63.8 µg/L
	o-Xylene	n/a †	227000 µg/L	22	11	0.958	0.568	0.204 - 4.69 µg/L
	Oil and Grease	n/a †	n/a †	22	11	2.953	2.273	1.6 - 7 mg/L
PFHxS	n/a †	n/a †	19	19	84.937	84.937	37.6 - 150 ng/L	
PFOA	n/a †	n/a †	20	19	22.349	22.349	9.27 - 38.2 ng/L	
PFOS	n/a †	n/a †	20	19	228.240	228.240	97.8 - 989 ng/L	
Phenanthrene	n/a †	1070 µg/L	21	21	1.342	1.342	0.216 - 13.6 µg/L	
Pyrene	30 µg/L	n/a †	21	19	0.615	0.615	0.058 - 6.83 µg/L	
Styrene	n/a †	29800 µg/L	22	15	2.128	1.483	0.275 - 13.8 µg/L	
tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	22	22	29.290	29.290	6.64 - 107 µg/L	
Toluene	1000 µg/L	16500 µg/L	22	12	1.724	0.986	0.254 - 8.88 µg/L	
Total Organic Carbon	n/a †	n/a †	22	22	39.841	39.841	25.3 - 83.4 mg/L	
Total TPH (C6-C35)	n/a †	n/a †	22	11	3,730.273	1,891.773	271 (J) - 29,500 (J) µg/L	
Trichloroethene	71.9 µg/L	1010 µg/L	22	1	0.965	0.139	0.965 (J) - 0.965 (J) µg/L	
Xylene (total)	n/a †	24000 µg/L	22	15	2.471	1.748	0.549 - 14.7 µg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS005	>C12-C28	n/a †	n/a ‡	1	1	19,500.000	19,500.000	19,500 - 19,500 µg/L
	Acetone	n/a †	780000 µg/L	1	1	2.730	2.730	2.73 (J) - 2.73 (J) µg/L
	Chloroform	7697 µg/L	2350 µg/L	1	1	1.530	1.530	1.53 (J) - 1.53 (J) µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	1	1	0.311	0.311	0.311 - 0.311 mg/L
	Methylene chloride	13333 µg/L	3370 µg/L	1	1	0.901	0.901	0.901 (J) - 0.901 (J) µg/L
	Oil and Grease	n/a †	n/a ‡	1	1	1.700	1.700	1.7 - 1.7 mg/L
	PFOA	n/a †	n/a ‡	1	1	1.870	1.870	1.87 - 1.87 ng/L
	PFOS	n/a †	n/a ‡	1	1	32.800	32.800	32.8 - 32.8 ng/L
	Toluene	1000 µg/L	16500 µg/L	1	1	1.360	1.360	1.36 - 1.36 µg/L
	Total Organic Carbon	n/a †	n/a ‡	1	1	12.200	12.200	12.2 - 12.2 mg/L
	Total TPH (C6-C35)	n/a †	n/a ‡	1	1	19,500.000	19,500.000	19,500 - 19,500 µg/L

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected.

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS006	1-Methylnaphthalene	n/a †	4800 µg/L	30	18	0.715	0.440	0.079 - 5.34 µg/L
	1,2-Dichloropropane	259 µg/L	186 µg/L	30	1	0.469	0.112	0.469 (J) - 0.469 (J) µg/L
	1,2,4-Trimethylbenzene	n/a †	3260 µg/L	30	2	0.509	0.127	0.221 (J) - 0.796 (J) µg/L
	1,3-Butadiene	n/a †	n/a †	30	14	30.429	14.333	0.53 - 119 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	30	27	6.149	5.947	2.16 - 20.2 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	30	1	1.000	0.893	1 (R) - 1 (R) µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	30	19	0.346	0.228	0.045 - 1.69 µg/L
	4-Methyl-2-pentanone	n/a †	52700 µg/L	30	10	2.666	0.955	1.44 (J) - 3.99 (J) µg/L
	>C12-C28	n/a †	n/a †	30	19	19,156.421	12,154.933	395 - 83,600 µg/L
	>C28-C35	n/a †	n/a †	30	6	9,861.667	2,021.633	1,530 (J) - 22,100 (J) µg/L
	Acenaphthene	90 µg/L	2440 µg/L	30	22	0.610	0.450	0.04 - 3.57 µg/L
	Acenaphthylene	n/a †	3260 µg/L	30	27	1.496	1.350	0.233 - 4.8 µg/L
	Acetone	n/a †	780000 µg/L	30	27	28.074	26.474	5.73 - 76 µg/L
	Anthracene	1317 µg/L	10700 µg/L	30	24	0.221	0.182	0.043 - 0.856 µg/L
	Benzene	581 µg/L	235 µg/L	30	12	1.595	0.698	0.262 - 6.1 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a †	30	16	0.093	0.062	0.03 (J) - 0.267 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a †	30	17	0.147	0.092	0.022 - 0.862 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a †	30	14	0.125	0.074	0.023 - 0.69 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a †	30	16	0.115	0.069	0.021 (J) - 0.565 (J) µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a †	30	7	0.116	0.039	0.029 - 0.266 µg/L
	Bromodichloromethane	275 µg/L	477 µg/L	30	18	0.906	0.635	0.245 - 1.69 µg/L
	Bromoform	1060 µg/L	4300 µg/L	30	4	0.923	0.231	0.376 (J) - 1.81 (J) µg/L
	C6-C12	n/a †	n/a †	30	7	2,355.571	592.200	380 - 5,050 µg/L
	Carbon disulfide	n/a †	n/a †	30	3	1.257	0.216	1.16 (J) - 1.43 (J) µg/L
	Chloroethane	n/a †	175000 µg/L	30	1	1.830	0.182	1.83 (J) - 1.83 (J) µg/L
	Chloroform	7697 µg/L	2350 µg/L	30	29	12.520	12.520	3.24 (J) - 19.3 (J) µg/L
	Chrysene	2.52 µg/L	n/a †	30	17	0.135	0.089	0.031 - 0.628 µg/L
	Dibenz(a,h)anthracene	0.0013 µg/L	n/a †	30	2	0.120	0.023	0.04 (J) - 0.199 (J) µg/L
	Dibromochloromethane	183 µg/L	383 µg/L	30	3	0.356	0.126	0.291 (J) - 0.444 (J) µg/L
	Ethylbenzene	1867 µg/L	12800 µg/L	30	10	0.771	0.346	0.273 - 3.74 µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	30	13	0.405	0.251	0.266 - 0.529 mg/L
	Fluoranthene	20 µg/L	n/a †	30	27	0.325	0.304	0.045 - 2.75 µg/L
	Fluorene	70 µg/L	2110 µg/L	30	21	0.497	0.356	0.072 - 1.88 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a †	30	14	0.107	0.057	0.013 - 0.466 µg/L
	m,p-Xylene	n/a †	n/a †	30	9	1.247	0.444	0.281 - 5.8 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	30	7	0.853	0.566	0.637 (J) - 1.23 (J) µg/L
	Naphthalene	n/a †	2550 µg/L	30	24	0.952	0.769	0.077 - 10.5 µg/L
	o-Xylene	n/a †	227000 µg/L	30	5	0.997	0.249	0.246 - 3.18 µg/L
	Oil and Grease	n/a †	n/a †	30	12	4.556	2.783	1.7 - 14.9 mg/L
	PFHxS	n/a †	n/a †	29	28	50.203	50.203	11.8 - 136 ng/L
PFOA	n/a †	n/a †	30	27	18.759	18.159	6.18 - 38.9 ng/L	
PFOS	n/a †	n/a †	29	27	240.100	240.100	46.7 - 1,200 ng/L	
Phenanthrene	n/a †	1070 µg/L	30	25	0.591	0.494	0.022 - 3.24 µg/L	
Pyrene	30 µg/L	n/a †	30	28	0.345	0.334	0.033 - 2.71 µg/L	
Styrene	n/a †	29800 µg/L	30	11	1.623	0.658	0.256 - 7.37 µg/L	
tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	30	30	32.484	32.484	5.01 - 109 µg/L	
Toluene	1000 µg/L	16500 µg/L	30	3	1.329	0.223	0.448 - 3.09 µg/L	
Total Organic Carbon	n/a †	n/a †	30	28	44.760	44.760	31.2 - 85.3 mg/L	
Total TPH (C6-C35)	n/a †	n/a †	30	19	23,143.000	14,679.783	395 (J) - 102,000 (J) µg/L	
Trichloroethene	71.9 µg/L	1010 µg/L	30	1	0.744	0.121	0.744 (J) - 0.744 (J) µg/L	
Trichlorofluoromethane	n/a †	43300 µg/L	30	1	1.280	0.139	1.28 (J) - 1.28 (J) µg/L	
Xylene (total)	n/a †	24000 µg/L	30	6	2.537	0.667	0.481 - 8.98 µg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected

(J) Quantification is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS007	>C12-C28	n/a †	n/a ‡	1	1	22,900.000	22,900.000	22,900 - 22,900 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a ‡	1	1	0.027	0.027	0.027 (J) - 0.027 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a ‡	1	1	0.020	0.020	0.02 - 0.02 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a ‡	1	1	0.032	0.032	0.032 - 0.032 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a ‡	1	1	0.077	0.077	0.077 (J) - 0.077 (J) µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a ‡	1	1	0.057	0.057	0.057 - 0.057 µg/L
	Chrysene	2.52 µg/L	n/a ‡	1	1	0.043	0.043	0.043 - 0.043 µg/L
	Dibenz(a,h)anthracene	0.0013 µg/L	n/a ‡	1	1	0.137	0.137	0.137 - 0.137 µg/L
	Fluoranthene	20 µg/L	n/a ‡	1	1	0.025	0.025	0.025 - 0.025 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a ‡	1	1	0.071	0.071	0.071 - 0.071 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	1	1	0.480	0.480	0.48 (J) - 0.48 (J) µg/L
	PFOS	n/a †	n/a ‡	1	1	3.080	3.080	3.08 - 3.08 ng/L
	Total Organic Carbon	n/a †	n/a ‡	1	1	9.220	9.220	9.22 - 9.22 mg/L
	Total TPH (C6-C35)	n/a †	n/a ‡	1	1	22,900.000	22,900.000	22,900 - 22,900 µg/L

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process. † No Surface Water PBEL available  
<sup>2</sup> Surface Water Risk Based Exposure Limit ‡ No Contact Recreation PCL available  
<sup>3</sup> Tier I Contact Recreation Water PCL  
<sup>4</sup> Average is approximate. Includes results below PL, and 1/2 of the MDL where the analyte was not detected.  
(J) Quantitation is approximate  
(R) QC Rejected for unreliable result

## South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS008	Acetone	n/a †	780000 µg/L	1	1	1.540	1.540	1.54 (J) - 1.54 (J) µg/L
	Bromodichloromethane	275 µg/L	477 µg/L	1	1	3.130	3.130	3.13 - 3.13 µg/L
	C6-C12	n/a †	n/a ‡	1	1	153.000	153.000	153 - 153 µg/L
	Chloroform	7697 µg/L	2350 µg/L	1	1	21.700	21.700	21.7 - 21.7 µg/L
	Dibromochloromethane	183 µg/L	383 µg/L	1	1	0.476	0.476	0.476 (J) - 0.476 (J) µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	1	1	0.664	0.664	0.664 (J) - 0.664 (J) µg/L
	Oil and Grease	n/a †	n/a ‡	1	1	1.800	1.800	1.8 - 1.8 mg/L
	Total Organic Carbon	n/a †	n/a ‡	1	1	5.510	5.510	5.51 - 5.51 mg/L
	Total TPH (C6-C35)	n/a †	n/a ‡	1	1	153.000	153.000	153 (J) - 153 (J) µg/L

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below PL, and 1/2 of the MDL where the analyte was not detected

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

## South 4 Group Fire

Cumulative Drinking Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	MCL <sup>2</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>3</sup>	Detection Range
WS008	Bromodichloromethane	Null	1	1	7.400	7.400	7.4 - 7.4 µg/L
	Chloroform	Null	1	1	42.800	42.800	42.8 - 42.8 µg/L
	Total Trihalomethanes (Calc.)	80 µg/L	1	1	50.200	50.200	50.2 - 50.2 µg/L

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

<sup>2</sup> TCEO Drinking Water Maximum Contaminant Level

<sup>3</sup> Average is approximate. Includes results below PL, and 1/2 of the MDL where the analyte was not detected.

† No MCL available

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS009	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	6	1	1.000	1.000	1 (R) - 1 (R) µg/L
	Acetone	n/a †	780000 µg/L	6	3	1.907	1.359	1.84 (J) - 1.97 (J) µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a ‡	6	1	0.077	0.026	0.077 (J) - 0.077 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a ‡	6	1	0.079	0.020	0.079 - 0.079 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a ‡	6	1	0.118	0.026	0.118 - 0.118 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a ‡	6	1	0.062	0.017	0.062 (J) - 0.062 (J) µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a ‡	6	1	0.051	0.022	0.051 - 0.051 µg/L
	Chrysene	2.52 µg/L	n/a ‡	6	1	0.091	0.029	0.091 - 0.091 µg/L
	Ethylene Glycol	16600000 µg/L	1840000 µg/L	6	5	0.420	0.372	0.27 - 0.768 mg/L
	Fluoranthene	20 µg/L	n/a ‡	6	2	0.068	0.034	0.074 - 0.102 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a ‡	6	1	0.068	0.018	0.068 - 0.068 µg/L
	PFOA	n/a †	n/a ‡	6	1	1.860	0.985	1.86 - 1.86 ng/L
	PFOS	n/a †	n/a ‡	5	4	3.993	3.336	1.8 - 6 ng/L
	Phenanthrene	n/a †	1070 µg/L	6	1	0.026	0.010	0.026 - 0.026 µg/L
	Pyrene	30 µg/L	n/a ‡	6	2	0.070	0.032	0.052 - 0.087 µg/L
	Total Organic Carbon	n/a †	n/a ‡	6	5	7.613	7.613	6.55 - 9.95 mg/L

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process. † No Surface Water RBEL available  
<sup>2</sup> Surface Water Risk Based Exposure Limit ‡ No Contact Recreation PCL available  
<sup>3</sup> Tier 1 Contact Recreation Water PCL  
<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected  
(J) Quantitation is approximate  
(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS010	1-Methylnaphthalene	n/a †	4800 µg/L	14	9	0.121	0.100	0.041 - 0.45 µg/L
	1,2,4-Trimethylbenzene	n/a †	3260 µg/L	14	2	0.269	0.688	0.252 (J) - 0.286 (J) µg/L
	1,3-Butadiene	n/a †	n/a ‡	14	12	98.021	98.021	11.8 - 196 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	14	11	18.280	14.913	5.01 - 44.3 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	14	5	7.000	6.571	1 (R) - 50 (R) µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	14	8	0.137	0.102	0.045 - 0.475 µg/L
	4-Isopropyltoluene	n/a †	3700 µg/L	14	1	0.365	0.683	0.365 (J) - 0.365 (J) µg/L
	4-Methyl-2-pentanone	n/a †	52700 µg/L	14	12	21.092	19.593	5.14 (J) - 95.8 (J) µg/L
	>C12-C28	n/a †	n/a †	14	3	1,599.667	391.464	919 - 2,130 µg/L
	Acenaphthene	90 µg/L	2440 µg/L	14	10	0.049	0.044	0.016 - 0.149 µg/L
	Acenaphthylene	n/a †	3260 µg/L	14	13	0.665	0.665	0.11 - 4.09 µg/L
	Acetone	n/a †	780000 µg/L	14	12	102.677	95.683	19 (J) - 237 (J) µg/L
	Acrolein	400 µg/L	426 µg/L	14	1	6.990	8.714	6.99 (J) - 6.99 (J) µg/L
	Anthracene	1317 µg/L	10700 µg/L	14	6	0.262	0.140	0.051 - 0.846 µg/L
	Benzene	581 µg/L	235 µg/L	14	12	2.495	2.510	0.374 - 10.5 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a †	14	7	0.109	0.071	0.026 (J) - 0.405 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a †	14	4	0.189	0.064	0.04 - 0.503 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a †	14	5	0.126	0.055	0.021 - 0.392 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a †	14	6	0.128	0.064	0.023 (J) - 0.461 (J) µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a †	14	3	0.075	0.038	0.04 - 0.128 µg/L
	Bromodichloromethane	275 µg/L	477 µg/L	14	11	3.122	3.025	0.427 - 6.96 µg/L
	C6-C12	n/a †	n/a †	14	10	2,140.300	1,543.929	201 - 5,740 µg/L
	Carbon disulfide	n/a †	n/a †	14	4	1.209	0.981	0.908 (J) - 1.56 (J) µg/L
	Chloroethane	n/a †	175000 µg/L	14	1	9.730	1.516	9.73 (J) - 9.73 (J) µg/L
	Chloroform	7697 µg/L	2350 µg/L	14	14	35.558	35.558	7.01 (J) - 84.9 (J) µg/L
	Chloromethane	n/a †	1950 µg/L	14	2	5.720	1.460	2.28 - 9.16 µg/L
	Chrysene	2.52 µg/L	n/a †	14	4	0.133	0.067	0.03 - 0.391 µg/L
	Dibenz(a,h)anthracene	0.0013 µg/L	n/a †	14	1	0.041	0.028	0.041 (J) - 0.041 (J) µg/L
	Dibromochloromethane	183 µg/L	383 µg/L	14	4	0.787	0.860	0.378 (J) - 1.26 (J) µg/L
	Ethylbenzene	1867 µg/L	12800 µg/L	13	13	283.977	283.977	20.7 - 572 µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	14	11	1.350	1.089	0.268 - 8.42 mg/L
	Fluoranthene	20 µg/L	n/a †	14	11	0.367	0.319	0.08 - 2.11 µg/L
	Fluorene	70 µg/L	2110 µg/L	14	9	0.243	0.178	0.043 - 1.02 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a †	14	4	0.136	0.049	0.025 - 0.356 µg/L
	Isopropylbenzene (Cumene)	n/a †	8440 µg/L	14	8	1.563	1.493	0.295 (J) - 3.28 (J) µg/L
	m,p-Xylene	n/a †	n/a †	14	5	1.435	1.141	0.396 - 2.96 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	14	1	2.650	1.271	2.65 (J) - 2.65 (J) µg/L
	Naphthalene	n/a †	2550 µg/L	14	15	3.993	3.993	0.099 - 49.4 µg/L
	o-Xylene	n/a †	227000 µg/L	14	4	1.086	0.946	0.595 - 2.06 µg/L
	Oil and Grease	n/a †	n/a †	14	7	6.271	3.511	1.8 - 14.1 mg/L
PFHxS	n/a †	n/a †	14	14	44.630	44.630	7.92 - 145 ng/L	
PFOA	n/a †	n/a †	14	14	11.793	11.793	2.22 - 33.5 ng/L	
PFOS	n/a †	n/a †	14	14	207.657	207.657	34.7 - 495 ng/L	
Phenanthrene	n/a †	1070 µg/L	14	12	0.716	0.618	0.089 - 4.09 µg/L	
Pyrene	30 µg/L	n/a †	14	13	0.507	0.476	0.144 - 2.61 µg/L	
Styrene	n/a †	29800 µg/L	13	13	1,621.814	1,621.814	8.98 - 5,950 µg/L	
tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	14	12	27.753	24.324	3.78 - 125 µg/L	
Toluene	1000 µg/L	16500 µg/L	14	7	1.097	1.156	0.814 - 2.09 µg/L	
Total Organic Carbon	n/a †	n/a †	14	14	46.936	46.936	25.2 - 70.7 mg/L	
Total TPH (C6-C35)	n/a †	n/a †	14	11	2,382.000	1,882.929	269 (J) - 6,370 (J) µg/L	
Xylene (total)	n/a †	24000 µg/L	14	6	1.855	2.038	0.595 - 5.02 µg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS011	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	1	1	1.000	1.000	1 (R) - 1 (R) µg/L
	Acetone	n/a †	780000 µg/L	1	1	1.440	1.440	1.44 (J) - 1.44 (J) µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	1	1	0.765	0.765	0.765 - 0.765 mg/L
	Oil and Grease	n/a †	n/a †	1	1	2.500	2.500	2.5 - 2.5 mg/L
	PFHxS	n/a †	n/a †	1	1	11.400	11.400	11.4 - 11.4 ng/L
	PFOS	n/a †	n/a †	1	1	6.370	6.370	6.37 - 6.37 ng/L
	Total Organic Carbon	n/a †	n/a †	1	1	9.220	9.220	9.22 - 9.22 mg/L

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process. † No Surface Water RBEL available  
<sup>2</sup> Surface Water Risk Based Exposure Limit ‡ No Contact Recreation PCL available  
<sup>3</sup> Tier 1 Contact Recreation Water PCL  
<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected.  
(J) Quantitation is approximate  
(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS014	1,3-Butadiene	n/a †	n/a ‡	10	1	0.654	0.290	0.654 - 0.654 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	10	1	1.000	0.850	1 (R) - 1 (R) µg/L
	Acetone	n/a †	750000 µg/L	10	4	2.673	1.348	2.04 (J) - 3.66 (J) µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	10	2	0.556	0.217	0.381 - 0.731 mg/L
	m,p-Xylene	n/a †	n/a ‡	10	1	0.209	0.111	0.209 - 0.209 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	10	3	0.686	0.397	0.336 (J) - 0.863 (J) µg/L
	Oil and Grease	n/a †	n/a ‡	10	2	2.050	1.030	1.5 - 2.6 mg/L
	PFHxS	n/a †	n/a ‡	10	1	5.540	1.211	5.54 - 5.54 ng/L
	PFOA	n/a †	n/a ‡	10	1	1.630	0.898	1.63 - 1.63 ng/L
	PFOS	n/a †	n/a ‡	10	6	19.202	11.899	1.52 - 104 ng/L
	Styrene	n/a †	29500 µg/L	10	1	0.236	0.114	0.236 - 0.236 µg/L
Total Organic Carbon	n/a †	n/a ‡	10	9	9.998	9.998	8.11 - 11.9 mg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected.

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS015	1-Methylnaphthalene	n/a †	4800 µg/L	8	7	0.231	0.231	0.064 - 0.592 µg/L
	1,3-Butadiene	n/a †	n/a †	8	8	108.563	108.563	33.2 - 258 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	8	7	9.046	9.046	2.86 - 12 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	8	1	1.000	0.936	1 (R) - 1 (R) µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	8	8	0.237	0.237	0.067 - 0.68 µg/L
	4-Methyl-2-pentanone	n/a †	52700 µg/L	8	4	2.993	1.546	2.62 (J) - 3.5 (J) µg/L
	> C12-C28	n/a †	n/a †	8	1	1,380.000	226.063	1,380 - 1,380 µg/L
	Acenaphthene	90 µg/L	2440 µg/L	8	5	0.076	0.052	0.055 - 0.129 µg/L
	Acenaphthylene	n/a †	3260 µg/L	8	8	0.542	0.542	0.231 - 0.764 µg/L
	Acetone	n/a †	780000 µg/L	8	5	9.798	8.026	8 - 13.6 µg/L
	Anthracene	1317 µg/L	10700 µg/L	8	7	0.120	0.111	0.066 - 0.184 µg/L
	Benzene	581 µg/L	235 µg/L	8	8	2.236	2.236	1.35 - 2.96 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a †	8	4	0.070	0.049	0.047 (J) - 0.091 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a †	8	3	0.056	0.031	0.036 - 0.074 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a †	8	3	0.059	0.034	0.043 - 0.075 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a †	8	4	0.038	0.027	0.029 (J) - 0.053 (J) µg/L
	Chloroform	7697 µg/L	2350 µg/L	8	8	2.023	2.023	0.599 (J) - 3.46 (J) µg/L
	Chrysene	2.52 µg/L	n/a †	8	5	0.061	0.050	0.029 - 0.09 µg/L
	Ethylbenzene	1867 µg/L	12800 µg/L	8	8	3.396	3.396	0.859 - 6.98 µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	8	3	0.444	0.249	0.372 - 0.575 mg/L
	Fluoranthene	20 µg/L	n/a †	8	8	0.339	0.339	0.109 - 0.49 µg/L
	Fluorene	70 µg/L	2110 µg/L	8	6	0.196	0.174	0.118 - 0.222 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a †	8	4	0.036	0.026	0.023 - 0.052 µg/L
	m,p-Xylene	n/a †	n/a †	8	8	0.941	0.941	0.423 - 1.15 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	8	1	1.170	0.493	1.17 (J) - 1.17 (J) µg/L
	Naphthalene	n/a †	2550 µg/L	8	8	0.501	0.501	0.236 - 0.681 µg/L
	o-Xylene	n/a †	227000 µg/L	8	7	0.588	0.527	0.485 - 0.809 µg/L
	Oil and Grease	n/a †	n/a †	8	4	2.100	1.606	1.6 - 2.6 mg/L
	PFHxS	n/a †	n/a †	8	8	91.525	91.525	8.8 - 156 ng/L
	PFOA	n/a †	n/a †	8	8	8.043	8.043	1.51 - 13.7 ng/L
	PFOS	n/a †	n/a †	8	7	362.538	362.538	38.3 - 627 ng/L
	Phenanthrene	n/a †	1070 µg/L	8	7	0.502	0.441	0.357 - 0.733 µg/L
Pyrene	30 µg/L	n/a †	8	8	0.352	0.352	0.128 - 0.505 µg/L	
Styrene	n/a †	29800 µg/L	8	8	2.219	2.219	1.57 - 3.38 µg/L	
tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	8	8	26.875	26.875	12.3 - 40.6 µg/L	
Total Organic Carbon	n/a †	n/a †	8	8	42.650	42.650	13.2 - 67.6 mg/L	
Total TPH (C6-C35)	n/a †	n/a †	8	1	1,380.000	218.688	1,380 (J) - 1,380 (J) µg/L	
Trichloroethene	71.9 µg/L	1010 µg/L	8	1	0.705	0.176	0.705 (J) - 0.705 (J) µg/L	
Xylene (total)	n/a †	24000 µg/L	8	7	1.455	1.455	0.423 - 1.91 µg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS016	1-Methylnaphthalene	n/a †	4800 µg/L	1	1	0.187	0.187	0.187 - 0.187 µg/L
	1,2,4-Trimethylbenzene	n/a †	3260 µg/L	1	1	0.415	0.415	0.415 (J) - 0.415 (J) µg/L
	1,3-Butadiene	n/a †	n/a ‡	1	1	4.680	4.680	4.68 - 4.68 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	1	1	2.080	2.080	2.08 - 2.08 µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	1	1	0.167	0.167	0.167 - 0.167 µg/L
	4-Methyl-2-pentanone	n/a †	52700 µg/L	1	1	2.280	2.280	2.28 (J) - 2.28 (J) µg/L
	>C12-C28	n/a †	n/a ‡	2	2	3,925.000	3,925.000	2,860 - 4,990 µg/L
	Acenaphthene	90 µg/L	2440 µg/L	1	1	0.396	0.396	0.396 - 0.396 µg/L
	Acenaphthylene	n/a †	3260 µg/L	1	1	0.985	0.985	0.985 - 0.985 µg/L
	Acetone	n/a †	780000 µg/L	1	1	16.000	16.000	16 - 16 µg/L
	Anthracene	1317 µg/L	10700 µg/L	1	1	0.166	0.166	0.166 - 0.166 µg/L
	Benzene	581 µg/L	235 µg/L	1	1	0.878	0.878	0.878 - 0.878 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a ‡	1	1	0.163	0.163	0.163 - 0.163 µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a ‡	1	1	0.164	0.164	0.164 - 0.164 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a ‡	1	1	0.171	0.171	0.171 - 0.171 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a ‡	1	1	0.153	0.153	0.153 - 0.153 µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a ‡	1	1	0.064	0.064	0.064 - 0.064 µg/L
	Bromodichloromethane	275 µg/L	477 µg/L	1	1	0.710	0.710	0.71 - 0.71 µg/L
	Chloroform	7697 µg/L	2350 µg/L	1	1	12.900	12.900	12.9 - 12.9 µg/L
	Chrysene	2.52 µg/L	n/a ‡	1	1	0.202	0.202	0.202 - 0.202 µg/L
	Fluoranthene	20 µg/L	n/a ‡	1	1	0.766	0.766	0.766 - 0.766 µg/L
	Fluorene	70 µg/L	2110 µg/L	1	1	0.132	0.132	0.132 - 0.132 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a ‡	1	1	0.117	0.117	0.117 - 0.117 µg/L
	m,p-Xylene	n/a †	n/a ‡	1	1	0.784	0.784	0.784 - 0.784 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	1	1	0.703	0.703	0.703 (J) - 0.703 (J) µg/L
	Naphthalene	n/a †	2550 µg/L	1	1	0.297	0.297	0.297 - 0.297 µg/L
	Oil and Grease	n/a †	n/a ‡	1	1	8.400	8.400	8.4 - 8.4 mg/L
	PFHxS	n/a †	n/a ‡	1	1	67.200	67.200	67.2 - 67.2 ng/L
	PFOA	n/a †	n/a ‡	1	1	16.800	16.800	16.8 - 16.8 ng/L
	PFOS	n/a †	n/a ‡	1	1	128.000	128.000	128 - 128 ng/L
Phenanthrene	n/a †	1070 µg/L	1	1	0.830	0.830	0.83 - 0.83 µg/L	
Pyrene	30 µg/L	n/a ‡	1	1	0.818	0.818	0.818 - 0.818 µg/L	
tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	1	1	15.800	15.800	15.8 - 15.8 µg/L	
Total Organic Carbon	n/a †	n/a ‡	1	1	35.200	35.200	35.2 - 35.2 mg/L	
Total TPH (C6-C35)	n/a †	n/a ‡	2	2	3,925.000	3,925.000	2,860 - 4,990 µg/L	
Xylene (total)	n/a †	24000 µg/L	1	1	0.784	0.784	0.784 - 0.784 µg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected.

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS017	1-Methylnaphthalene	n/a †	4800 µg/L	15	7	0.698	0.338	0.07 - 2.31 µg/L
	1,2-Dichloropropane	259 µg/L	186 µg/L	15	1	0.572	0.131	0.572 (J) - 0.572 (J) µg/L
	1,3-Butadiene	n/a †	n/a †	15	5	1.716	0.739	0.685 - 4.55 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	15	13	7.427	6.450	1.75 - 19.8 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	15	1	1.000	0.933	1 (R) - 1 (R) µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	15	5	0.229	0.091	0.096 - 0.429 µg/L
	4-Methyl-2-pentanone	n/a †	52700 µg/L	15	8	3.133	1.717	1.15 (J) - 8.39 (J) µg/L
	>C12-C28	n/a †	n/a †	15	11	5,283.636	3,891.100	180 - 20,900 µg/L
	>C28-C35	n/a †	n/a †	15	1	5,020.000	391.900	5,020 - 5,020 µg/L
	Acenaphthene	90 µg/L	2440 µg/L	15	8	1.021	0.548	0.158 - 3.42 µg/L
	Acenaphthylene	n/a †	3260 µg/L	15	12	1.883	1.512	0.503 - 4.84 µg/L
	Acetone	n/a †	780000 µg/L	15	14	19.806	18.919	8.09 - 47.2 µg/L
	Anthracene	1317 µg/L	10700 µg/L	15	6	0.214	0.099	0.08 - 0.419 µg/L
	Benzene	581 µg/L	235 µg/L	15	1	0.239	0.109	0.239 - 0.239 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a †	15	7	0.061	0.036	0.034 (J) - 0.111 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a †	15	7	0.052	0.028	0.022 - 0.15 µg/L
	Benzo(b)fluoranthene	0.013 µg/L	n/a †	15	5	0.046	0.020	0.023 - 0.11 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a †	15	5	0.053	0.023	0.023 (J) - 0.108 (J) µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a †	15	2	0.039	0.018	0.027 - 0.051 µg/L
	Bromodichloromethane	275 µg/L	477 µg/L	15	13	1.068	0.939	0.449 - 1.84 µg/L
	Bromoform	1060 µg/L	4300 µg/L	15	3	1.027	0.305	0.521 (J) - 1.81 (J) µg/L
	Bromomethane	10000 µg/L	902 µg/L	15	1	6.020	0.635	6.02 - 6.02 µg/L
	C6-C12	n/a †	n/a †	15	5	2,867.000	990.767	234 - 5,800 µg/L
	Chloroform	7697 µg/L	2350 µg/L	15	15	15.520	15.520	8.76 - 21.4 µg/L
	Chloromethane	n/a †	1950 µg/L	15	1	13.900	1.020	13.9 - 13.9 µg/L
	Chrysene	2.52 µg/L	n/a †	15	8	0.052	0.040	0.025 - 0.154 µg/L
	Dibenz(a,h)anthracene	0.0013 µg/L	n/a †	15	1	0.059	0.017	0.059 (J) - 0.059 (J) µg/L
	Dibromochloromethane	183 µg/L	383 µg/L	15	3	0.385	0.157	0.296 (J) - 0.484 (J) µg/L
	Ethylbenzene	1867 µg/L	12800 µg/L	15	1	0.511	0.127	0.511 - 0.511 µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	15	8	0.361	0.254	0.282 - 0.477 mg/L
	Fluoranthene	20 µg/L	n/a †	15	11	0.133	0.099	0.044 - 0.227 µg/L
	Fluorene	70 µg/L	2110 µg/L	15	6	0.578	0.245	0.092 - 1.63 µg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a †	15	3	0.055	0.017	0.038 - 0.085 µg/L
	Methyl iodide	n/a †	870 µg/L	15	1	13.500	1.133	13.5 - 13.5 µg/L
	Methylene chloride	13333 µg/L	3370 µg/L	15	2	0.924	0.598	0.748 (J) - 1.1 (J) µg/L
Naphthalene	n/a †	2550 µg/L	15	7	0.164	0.080	0.035 - 0.358 µg/L	
Oil and Grease	n/a †	n/a †	15	6	5.267	2.600	1.7 - 14 mg/L	
PFHxS	n/a †	n/a †	15	15	32.060	32.060	12.5 - 66 ng/L	
PFOA	n/a †	n/a †	15	13	18.929	17.717	12.8 - 41.9 ng/L	
PFOS	n/a †	n/a †	14	14	117.507	117.507	72.8 - 177 ng/L	
Phenanthrene	n/a †	1070 µg/L	15	4	0.283	0.081	0.088 - 0.435 µg/L	
Pyrene	30 µg/L	n/a †	15	11	0.183	0.138	0.041 - 0.339 µg/L	
Styrene	n/a †	29800 µg/L	15	4	0.497	0.206	0.217 - 1.16 µg/L	
tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	15	15	32.895	32.895	5.19 - 90.9 µg/L	
Total Organic Carbon	n/a †	n/a †	15	15	45.860	45.860	32.6 - 92.9 mg/L	
Total TPH (C6-C35)	n/a †	n/a †	15	12	6,457.833	5,176.833	180 (J) - 28,700 (J) µg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected.

(J) Quantification is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS021	1-Methylnaphthalene	n/a †	4800 µg/L	1	1	0.668	0.668	0.668 - 0.668 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	1	1	5.100	5.100	5.1 - 5.1 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	1	1	1.000	1.000	1 (R) - 1 (R) µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	1	1	0.348	0.348	0.348 - 0.348 µg/L
	Acenaphthylene	n/a †	3260 µg/L	1	1	1.160	1.160	1.16 - 1.16 µg/L
	Acetone	n/a †	780000 µg/L	1	1	20.000	20.000	20 - 20 µg/L
	Bromodichloromethane	275 µg/L	477 µg/L	1	1	0.829	0.829	0.829 - 0.829 µg/L
	Chloroform	7697 µg/L	2350 µg/L	1	1	15.100	15.100	15.1 - 15.1 µg/L
	Fluoranthene	20 µg/L	n/a ‡	1	1	0.084	0.084	0.084 - 0.084 µg/L
	Naphthalene	n/a †	2550 µg/L	1	1	0.282	0.282	0.282 - 0.282 µg/L
	Oil and Grease	n/a †	n/a ‡	1	1	2.100	2.100	2.1 - 2.1 mg/L
	PFHxS	n/a †	n/a ‡	1	1	103.000	103.000	103 - 103 ng/L
	PFOA	n/a †	n/a ‡	1	1	30.900	30.900	30.9 - 30.9 ng/L
	PFOS	n/a †	n/a ‡	1	1	174.000	174.000	174 - 174 ng/L
	Phenanthrene	n/a †	1070 µg/L	1	1	0.187	0.187	0.187 - 0.187 µg/L
	Pyrene	30 µg/L	n/a ‡	1	1	0.049	0.049	0.049 - 0.049 µg/L
	tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	1	1	9.500	9.500	9.5 - 9.5 µg/L
	Total Organic Carbon	n/a †	n/a ‡	1	1	52.400	52.400	52.4 - 52.4 mg/L

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process. † No Surface Water RBEL available  
<sup>2</sup> Surface Water Risk Based Exposure Limit ‡ No Contact Recreation PCL available  
<sup>3</sup> Tier 1 Contact Recreation Water PCL  
<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected.  
(J) Quantitation is approximate  
(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS022	1-Methylnaphthalene	n/a †	4800 µg/L	1	1	0.097	0.097	0.097 - 0.097 µg/L
	1,3-Butadiene	n/a †	n/a ‡	1	1	39.700	39.700	39.7 - 39.7 µg/L
	2-Butanone	992000 µg/L	491000 µg/L	1	1	16.400	16.400	16.4 - 16.4 µg/L
	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	1	1	1.000	1.000	1 (R) - 1 (R) µg/L
	2-Methylnaphthalene	n/a †	276 µg/L	1	1	0.117	0.117	0.117 - 0.117 µg/L
	4-Methyl-2-pentanone	n/a †	52700 µg/L	1	1	9.950	9.950	9.95 - 9.95 µg/L
	>C12-C28	n/a †	n/a ‡	1	1	3,180.000	3,180.000	3,180 - 3,180 µg/L
	Acenaphthene	90 µg/L	2440 µg/L	1	1	0.022	0.022	0.022 - 0.022 µg/L
	Acenaphthylene	n/a †	3260 µg/L	1	1	0.259	0.259	0.259 - 0.259 µg/L
	Acetone	n/a †	760000 µg/L	1	1	29.100	29.100	29.1 - 29.1 µg/L
	Benzene	581 µg/L	235 µg/L	1	1	1.460	1.460	1.46 - 1.46 µg/L
	Bromodichloromethane	275 µg/L	477 µg/L	1	1	0.772	0.772	0.772 - 0.772 µg/L
	C6-C12	n/a †	n/a ‡	1	1	765.000	765.000	765 - 765 µg/L
	Carbon disulfide	n/a †	n/a ‡	1	1	0.697	0.697	0.697 (J) - 0.697 (J) µg/L
	Chloroform	7697 µg/L	2350 µg/L	1	1	12.500	12.500	12.5 - 12.5 µg/L
	Ethylbenzene	1867 µg/L	12800 µg/L	1	1	331.000	331.000	331 - 331 µg/L
	Fluoranthene	20 µg/L	n/a ‡	1	1	0.104	0.104	0.104 - 0.104 µg/L
	Fluorene	70 µg/L	2110 µg/L	1	1	0.086	0.086	0.086 - 0.086 µg/L
	Isopropylbenzene (Cumene)	n/a †	8440 µg/L	1	1	1.520	1.520	1.52 (J) - 1.52 (J) µg/L
	m,p-Xylene	n/a †	n/a ‡	1	1	1.210	1.210	1.21 - 1.21 µg/L
	Naphthalene	n/a †	2550 µg/L	1	1	0.691	0.691	0.691 - 0.691 µg/L
	Oil and Grease	n/a †	n/a ‡	1	1	8.600	8.600	8.6 - 8.6 mg/L
	Phenanthrene	n/a †	1070 µg/L	1	1	0.250	0.250	0.25 - 0.25 µg/L
	Pyrene	30 µg/L	n/a ‡	1	1	0.242	0.242	0.242 - 0.242 µg/L
	Styrene	n/a †	29800 µg/L	1	1	971.000	971.000	971 - 971 µg/L
	tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	1	1	21.800	21.800	21.8 - 21.8 µg/L
	Toluene	1000 µg/L	16500 µg/L	1	1	1.010	1.010	1.01 - 1.01 µg/L
	Total Organic Carbon	n/a †	n/a ‡	1	1	130.000	130.000	130 - 130 mg/L
	Total TPH (C6-C35)	n/a †	n/a ‡	1	1	3,950.000	3,950.000	3,950 - 3,950 µg/L
	Xylene (total)	n/a †	24000 µg/L	1	1	1.210	1.210	1.21 - 1.21 µg/L

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process. † No Surface Water RBEL available  
<sup>2</sup> Surface Water Risk Based Exposure Limit ‡ No Contact Recreation PCL available  
<sup>3</sup> Tier 1 Contact Recreation Water PCL  
<sup>4</sup> Average is approximate, includes results below RL, and 1/2 of the MDL where the analyte was not detected.  
(J) Quantitation is approximate  
(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS023	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	8	1	1.000	1.000	1 (R) - 1 (R) µg/L
	Acenaphthene	90 µg/L	2440 µg/L	8	1	0.066	0.018	0.066 - 0.066 µg/L
	Acetone	n/a †	760000 µg/L	8	5	2.158	1.911	1.2 (J) - 3.17 (J) µg/L
	Ethylene Glycol	16800000 µg/L	1840000 µg/L	8	7	0.374	0.343	0.288 - 0.512 mg/L
	Fluoranthene	20 µg/L	n/a †	8	1	0.026	0.013	0.026 - 0.026 µg/L
	Naphthalene	n/a †	2550 µg/L	8	1	0.014	0.012	0.014 - 0.014 µg/L
	PFHxS	n/a †	n/a †	8	6	5.730	4.469	1.48 - 13.5 ng/L
	PFOA	n/a †	n/a †	8	3	2.197	1.293	1.62 - 2.6 ng/L
	PFOS	n/a †	n/a †	8	5	18.422	12.635	3.25 - 42 ng/L
	Phenanthrene	n/a †	1070 µg/L	8	1	0.037	0.014	0.037 - 0.037 µg/L
	Styrene	n/a †	29600 µg/L	8	1	0.240	0.118	0.24 - 0.24 µg/L
	tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	8	2	0.850	0.288	0.67 - 1.03 µg/L
	Total Organic Carbon	n/a †	n/a †	8	8	7.629	7.629	6.29 - 10.3 mg/L

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

† No Surface Water RBEL available

<sup>2</sup> Surface Water Risk Based Exposure Limit

‡ No Contact Recreation PCL available

<sup>3</sup> Tier 1 Contact Recreation Water PCL

<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected

(J) Quantitation is approximate

(R) QC Rejected for unreliable result

# South 4 Group Fire

Cumulative Surface Water Sampling Detections by Location | Data received through Jan 02, 2020<sup>1</sup>

Location Code	Analyte	SWRBEL <sup>2</sup>	CRWPCL <sup>3</sup>	Count of Samples	Count of Detections	Average of Detections	Average Result <sup>4</sup>	Detection Range
WS024	2-Chloroethylvinyl ether	n/a †	16.2 µg/L	4	1	1.000	1.000	1 (R) - 1 (R) µg/L
	Acetone	n/a †	780000 µg/L	4	3	1.907	1.665	1.6 (J) - 2.23 (J) µg/L
	Benzene	581 µg/L	235 µg/L	4	1	0.243	0.136	0.243 - 0.243 µg/L
	Benzo(a)anthracene	0.025 µg/L	n/a †	4	1	0.026	0.019	0.026 (J) - 0.026 (J) µg/L
	Benzo(a)pyrene	0.0025 µg/L	n/a †	4	1	0.026	0.013	0.026 - 0.026 µg/L
	Benzo(g,h,i)perylene	n/a †	n/a †	4	1	0.029	0.014	0.029 (J) - 0.029 (J) µg/L
	Benzo(k)fluoranthene	0.13 µg/L	n/a †	4	1	0.035	0.022	0.035 - 0.035 µg/L
	Chrysene	2.52 µg/L	n/a †	4	1	0.038	0.022	0.038 - 0.038 µg/L
	Dibenz(a,h)anthracene	0.0013 µg/L	n/a †	4	1	0.032	0.021	0.032 (J) - 0.032 (J) µg/L
	Ethylene Glycol	16000000 µg/L	1840000 µg/L	4	3	0.377	0.316	0.335 - 0.439 mg/L
	Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a †	4	1	0.028	0.014	0.028 - 0.028 µg/L
	Oil and Grease	n/a †	n/a †	4	1	1.600	0.975	1.6 - 1.6 mg/L
	PFHxS	n/a †	n/a †	4	4	5.528	5.528	3.99 - 9.01 ng/L
	PFOA	n/a †	n/a †	4	4	2.580	2.580	1.99 - 3.1 ng/L
	PFOS	n/a †	n/a †	4	3	17.700	15.366	13.2 - 23.7 ng/L
Total Organic Carbon	n/a †	n/a †	4	4	8.520	8.520	7.27 - 10.6 mg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process. † No Surface Water RBEL available  
<sup>2</sup> Surface Water Risk Based Exposure Limit ‡ No Contact Recreation PCL available  
<sup>3</sup> Tier 1 Contact Recreation Water PCL  
<sup>4</sup> Average is approximate. Includes results below RL, and 1/2 of the MDL where the analyte was not detected  
(J) Quantitation is approximate  
(R) QC Rejected for unreliable result

# Attachment C

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## Daily Surface Water Sampling Results

South 4 Group Fire

Surface Water Screening Values - November 29, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS001		WS002		WS003		WS004		Detection Color Code
				PNTX1129X001	PNTX1129X001B	PNTX1129X002	PNTX1129X002B	PNTX1129X003	PNTX1129X003B	PNTX1129X004	PNTX1129X004B	
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	Pending Validation	Not Detected							
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.5 µg/L	<0.2 µg/L	Detected						
1,1-Dichloroethene	<0.2 - <1 µg/L	551.74 µg/L	36500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	Detected							
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	25.35 µg/L	33.9 µg/L	<0.2 µg/L	Detected							
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	Detected							
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2-Dichloroethene[Total]	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	Detected							
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	Detected							
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	0.412 µg/L (J)	<0.2 µg/L	<0.2 µg/L	1.68 µg/L (J)	<0.2 µg/L	0.96 µg/L (J)	0.64 µg/L (J)	Detected
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	9.52 µg/L	<0.5 µg/L	Detected							
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	3.32 µg/L (J)	n/a †	17.7 µg/L	1.3 µg/L	3.7 µg/L	3.7 µg/L	3.7 µg/L	3.7 µg/L	Detected
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9750 µg/L	<0.5 µg/L	Detected							
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	Detected							
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	<0.5 µg/L	26.1 µg/L	<0.5 µg/L	2.81 µg/L (J)	43.2 µg/L	<0.5 µg/L	31 µg/L	19.7 µg/L	Detected
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	Detected
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	Detected							
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.5 µg/L	Detected							
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	Detected							
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	1.41 µg/L	1.12 µg/L	<0.041 µg/L	<0.041 µg/L	3.96 µg/L	1.09 µg/L	4.07 µg/L	1.97 µg/L (J)	Detected
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	Detected							
2,4-Dinitrophenol	<0.8 - <1.87 µg/L	360 µg/L	1270 µg/L	<1.5 µg/L	Detected							
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	28 µg/L	455 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	Detected							
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	Detected							
4-Chloro-3-methylphenol	<0.5 - <0.526 µg/L	2000 µg/L	820 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	Detected							
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	Detected							
4-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	2120 µg/L	<0.2 µg/L	Detected							
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	Detected							
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.592 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
4-Nitroaniline	<0.8 - 1.58 µg/L	n/a †	966 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	Detected
4-Nitrophenol	<0.8 - <1.87 µg/L	n/a †	1120 µg/L	<1.5 µg/L	Detected							
4,6-Dinitro-2-methylphenol	<0.8 - <1.87 µg/L	30 µg/L	30 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS009 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL available  
(N) QC detected for unreliable result  
(J) Quantitative is approximate

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

South 4 Group Fire

Surface Water Screening Values - November 29, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS005	WS006	WS007
				PNTX1129M005	PNTX1129K006A	PNTX1129N007
				Pending Validation	Pending Validation	Pending Validation
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.042 µg/L	<0.042 µg/L	<0.042 µg/L
1,1-Dichloroethane	<0.2 - <0.6 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	650 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	0.221 µg/L (J)	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	7.04 µg/L	<0.2 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.042 µg/L	0.054 µg/L	<0.042 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.9 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	300 µg/L	1270 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.526 µg/L	2000 µg/L	870 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.53 µg/L	n/a †	966 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
4,6-Dinitro-2-methylphenol	<0.5 - <1.67 µg/L	30 µg/L	30 µg/L	<1.62 µg/L	<1.53 µg/L	<1.5 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS005 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC requested for unreliable result

(J) Quantitative is approximate



# South 4 Group Fire

Surface Water Screening Values - November 29, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS005	WS006	WS007
				PNTX1129M005 Pending Validation	PNTX1129K006A Pending Validation	PNTX1129N007 Pending Validation
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	1.9 µg/L	484 µg/L (J)	22,500 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.019 µg/L	0.019 µg/L	< 0.019 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	< 0.042 µg/L	1.8 µg/L	< 0.04 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	2.73 µg/L (J)	1.79 µg/L	< 0.5 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.780 µg/L	n/a †	4630 µg/L	< 0.733 µg/L	< 0.733 µg/L	10.77 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1317 µg/L	10700 µg/L	< 0.042 µg/L	0.172 µg/L	< 0.041 µg/L
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	< 0.1 µg/L	2.9 µg/L (J)	< 0.2 µg/L
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L
Benzo(a)anthracene	< 0.025 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L	0.221 µg/L	0.027 µg/L (J)
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	0.56 µg/L	0.02 µg/L (J)
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	0.203 µg/L	0.002 µg/L (J)
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L	0.104 µg/L	0.077 µg/L (J)
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L	0.071 µg/L (J)	0.057 µg/L (J)
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 1.5 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.89 µg/L	n/a †	< 0.27 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	0.845 µg/L (J)	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1080 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 107 µg/L	< 109 µg/L	< 109 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	10.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	1.59 µg/L (J)	7.77 µg/L	< 0.2 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.025 - 0.061 µg/L	2.52 µg/L	n/a †	< 0.025 µg/L	0.215 µg/L	0.043 µg/L (J)
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0113 µg/L	n/a †	< 0.026 µg/L	< 0.027 µg/L	0.177 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	10.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12800 µg/L	< 0.2 µg/L	1.14 µg/L (J)	< 0.2 µg/L
Ethylene Glycol	< 265 - 7318 µg/L	1680000 µg/L	1840000 µg/L	0.311 mg/L (J)	0.29 mg/L (J)	< 265 mg/L
Fluoranthene	< 0.013 - 0.102 µg/L	20 µg/L	n/a †	< 0.013 µg/L	0.035 µg/L	0.025 µg/L (J)
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.042 µg/L	0.494 µg/L	< 0.04 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS005 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC requested for unreliable result

(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - November 29, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS001		WS002		WS003		WS004	
				PNTX1129X001	PNTX1129X00B	PNTX1129X002	PNTX1129X002B	PNTX1129X003	PNTX1129X003B	PNTX1129X004	PNTX1129X004B
				Pending Validation							
Hexachlorobenzene	< 0.5 - 0.526 µg/L	0.70045 µg/L	n/a †	< 0.5 µg/L	< 0.5 µg/L	13.5 µg/L	13.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.52 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Hexachloroethane	< 0.5 - 0.526 µg/L	2.33 µg/L	n/a †	< 0.5 µg/L							
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.088 µg/L	0.013 µg/L	n/a †	0.14 µg/L	0.207 µg/L (J)	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	0.024 µg/L (J)	0.35 µg/L (J)
Isophorone	< 0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.52 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.6 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	< 0.25 µg/L	< 0.25 µg/L	13.21 µg/L	13.21 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
m,p-Xylene	< 0.2 - 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	2.81 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	2.42 µg/L (J)	5.3 µg/L (J)	10 µg/L
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 0.2 µg/L	13333 µg/L	3370 µg/L	0.558 µg/L (J)	0.94 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	0.936 µg/L (J)	0.616 µg/L (J)	0.418 µg/L (J)	0.839 µg/L (J)
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1600 µg/L	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	13.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.52 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.952 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.52 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.526 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.52 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Propylbenzene	< 0.5 - 0.1 µg/L	n/a †	1.1 µg/L	< 0.5 µg/L	< 0.5 µg/L	11.0 µg/L	11.0 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	NA	16.1 µg/L	0.105 µg/L	0.324 µg/L	NA	0.65 µg/L	0.3 µg/L	22.4 µg/L
Nitrobenzene	< 0.5 - 0.526 µg/L	1673 µg/L	248 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.52 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.5 µg/L	< 0.5 µg/L	13.2 µg/L	13.2 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
o-Xylene	< 0.2 - 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	1.52 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	11.1 µg/L	1.29 µg/L (J)	2.83 µg/L (J)
Oil and Grease	< 1500 - 0.1600 µg/L	n/a †	n/a †	16 µg/L	< 1.6 µg/L	< 1.6 µg/L	< 1.6 µg/L	11.1 µg/L	< 1.6 µg/L	11.9 µg/L	11.1 µg/L
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.52 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
PFOA	< 1.5 - 1.86 µg/L	n/a †	43 µg/L	< 1.5 µg/L	33.2 µg/L	13.3 µg/L	26.1 µg/L	46.4 µg/L	19 µg/L	18.0 µg/L	NA
PFOS	< 1.42 - 0 µg/L	n/a †	n/a †	NA	NA	238 µg/L	642 µg/L	NA	335 µg/L	983 µg/L	NA
Phenanthrene	< 0.013 - 0.026 µg/L	n/a †	1270 µg/L	1 µg/L	3.03 µg/L	< 0.013 µg/L	< 0.013 µg/L	30.3 µg/L	2.29 µg/L	1.3 µg/L	3.59 µg/L (J)
Phenol	< 0.5 - 0.554 µg/L	300000 µg/L	160000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Pyrene	< 0.026 - 0.087 µg/L	30 µg/L	n/a †	2.6 µg/L	3.33 µg/L	< 0.026 µg/L	< 0.026 µg/L	0.82 µg/L	0.955 µg/L	0.63 µg/L	1.5 µg/L (J)
Pyridine	< 0.5 - 1.53 µg/L	347 µg/L	717 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.7 µg/L	< 0.5 µg/L
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1560 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.9 µg/L	n/a †	23600 µg/L	< 0.2 µg/L	5.08 µg/L	< 0.2 µg/L	< 0.2 µg/L	25.5 µg/L	2.51 µg/L (J)	25.6 µg/L	9.01 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10480 µg/L	5470 µg/L	2.72 µg/L (J)	11.3 µg/L	3.5 µg/L	122 µg/L	29.6 µg/L	34 µg/L	177 µg/L	< 0.2 µg/L
tert-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	3400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.6 µg/L	260 µg/L	148 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	3000 µg/L	16500 µg/L	< 0.2 µg/L	5.33 µg/L	13.2 µg/L	1.62 µg/L (J)	13.1 µg/L	2.85 µg/L (J)	4.88 µg/L	5.23 µg/L
Total Organic Carbon	6550 - 3950 µg/L	n/a †	n/a †	5.01 µg/L	84.8 µg/L	42.5 µg/L	48.9 µg/L	76.2 µg/L	52.8 µg/L	83.4 µg/L	53.5 µg/L
Total TPH (C6-C15)	< 107 - 0.109 µg/L	n/a †	n/a †	1.390 µg/L (J)	10.000 µg/L	< 0.108 µg/L	26.500 µg/L	4.030 µg/L	270 µg/L (J)	11.05 µg/L	23.100 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.1 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	13.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L							
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	3710 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L							
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	6040000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 0.1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 0.1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	4.34 µg/L (J)	10.4 µg/L	10.4 µg/L	14.0 µg/L	0.73 µg/L (J)	6.13 µg/L (J)	24.7 µg/L (J)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water RSEL Available

‡ No Contact Recreation PCL available

(R) QC detected for unreliable result

(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - November 29, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS005	WS006	WS007
				PNTX1129M005 Pending Validation	PNTX1129K006A Pending Validation	PNTX1129N007 Pending Validation
Hexachlorobenzene	< 0.5 - 0.525 µg/L	0.00045 µg/L	n/a †	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 1.6 µg/L	< 1.58 µg/L	< 1.58 µg/L
Hexachloroethane	< 0.5 - 0.536 µg/L	2.33 µg/L	n/a †	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.088 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	0.15 µg/L	0.071 µg/L (J)
Isophorone	< 0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.6 µg/L	n/a †	2440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	< 0.233 µg/L	< 0.233 µg/L	< 0.23 µg/L
m,p-Xylene	< 0.2 - 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	2.12 µg/L (J)	< 0.2 µg/L
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 0.212 µg/L	13333 µg/L	3370 µg/L	0.301 µg/L (J)	1.21 µg/L (J)	0.46 µg/L (J)
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.952 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.536 µg/L	60 µg/L	421 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Propylbenzene	< 0.5 - 0.5 µg/L	n/a †	2550 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Naphthalene	< 0.13 - 0.2 µg/L	n/a †	2550 µg/L	< 0.013 µg/L	3.74 µg/L	< 0.013 µg/L
Nitrobenzene	< 0.5 - 0.526 µg/L	1672 µg/L	248 µg/L	< 0.005 µg/L	< 0.51 µg/L	< 0.51 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
o-Xylene	< 0.2 - 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	0.797 µg/L (J)	< 0.2 µg/L
Oil and Grease	< 1500 - 0.1600 µg/L	n/a †	n/a †	1.7 mg/L (J)	< 1.6 mg/L	< 1.6 mg/L
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
PFOA	< 1.5 - 1.86 ng/L	n/a †	n/a †	1.87 ng/L (J)	13.4 ng/L	< 1.5 ng/L
PFOS	< 1.42 - 9 ng/L	n/a †	n/a †	36.8 ng/L	243 ng/L	3.08 ng/L (J)
Phenanthrene	< 0.013 - 0.026 µg/L	n/a †	1070 µg/L	< 0.013 µg/L	0 µg/L	< 0.013 µg/L
Phenol	< 0.5 - 0.554 µg/L	300000 µg/L	160000 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
Pyrene	< 0.026 - 0.087 µg/L	30 µg/L	n/a †	< 0.026 µg/L	0.354 µg/L	< 0.026 µg/L
Pyridine	< 0.5 - 1.53 µg/L	347 µg/L	717 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1560 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.5 µg/L	n/a †	23600 µg/L	< 0.2 µg/L	4.84 µg/L (J)	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10480 µg/L	5470 µg/L	< 0.2 µg/L	49.1 µg/L	< 0.2 µg/L
tert-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.6 µg/L	260 µg/L	148 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	1.36 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Total Organic Carbon	6550 - 3350 µg/L	n/a †	n/a †	15.2 mg/L	68.8 mg/L	5.22 mg/L
Total TPH (C6-C15)	< 107 - 0.109 µg/L	n/a †	n/a †	30,100 µg/L	484 µg/L (J)	21,100 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.1 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	6040000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 0.1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 0.1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	2.96 µg/L (J)	< 0.4 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water RSEL Available

‡ No Contact Recreation PCL available

(R) QC reflected for unreliable result

(J) Quantitation is approximate



South 4 Group Fire

Surface Water Screening Values - November 30, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS004	WS006	
				PNTX1120X004B Pending Validation	PNTX1120X006A Pending Validation	PNTX1120X006B Pending Validation
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.271 µg/L	0.204 µg/L	0.083 µg/L (J)
1,1-Dichloroethane	<0.2 - <0.6 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.6 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3289 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3250 µg/L	0.249 µg/L (J)	<0.2 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	28.7 µg/L	33.3 µg/L	7.67 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	535 µg/L	9760 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.8 µg/L	332000 µg/L	491000 µg/L	4.49 µg/L (J)	2.97 µg/L (J)	5.86 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	<1 µg/L	1 µg/L (P)	<1 µg/L
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5480 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	0.294 µg/L	0.204 µg/L	0.219 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	156 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	300 µg/L	1270 µg/L	<1 µg/L	<1 µg/L	<1.33 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	485 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.53 µg/L	n/a †	966 µg/L	<1 µg/L	<1 µg/L	<1.33 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<1 µg/L	<1 µg/L	<1.33 µg/L
4,6-Dinitro-2-methylphenol	<0.5 - <1.67 µg/L	30 µg/L	30 µg/L	<1 µg/L	<1 µg/L	<1.33 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS004 and WS006

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate



South 4 Group Fire

Surface Water Screening Values - November 30, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS004	WS006	
				PNTX1120X004B Pending Validation	PNTX1120X006A Pending Validation	PNTX1120Y006B Pending Validation
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	296 µg/L (J)	1,510 µg/L	603 µg/L (J)
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 124 µg/L	< 124 µg/L	< 124 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	0.13 µg/L	0.33 µg/L	0.33 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	1.58 µg/L	1.25 µg/L	0.485 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	4.29 µg/L	< 1.49 µg/L	11.7 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.51 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.785 µg/L	n/a †	4630 µg/L	< 0.781 µg/L	< 0.781 µg/L	< 0.781 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1317 µg/L	10700 µg/L	0.250 µg/L	0.531 µg/L	0.083 µg/L (J)
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	2.91 µg/L (J)	2.78 µg/L (J)	1.95 µg/L (J)
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.6 µg/L	< 2.6 µg/L	< 2.55 µg/L
Benzo(a)anthracene	< 0.025 - 0.077 µg/L	0.025 µg/L	n/a †	0.113 µg/L	0.237 µg/L	0.055 µg/L (J)
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	0.114 µg/L	0.305 µg/L	0.046 µg/L (J)
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	0.097 µg/L (J)	0.312 µg/L	0.048 µg/L (J)
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	0.092 µg/L (J)	0.22 µg/L	0.05 µg/L (J)
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	0.036 µg/L (J)	0.081 µg/L (J)	< 0.04 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 1.501 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.521 µg/L	< 0.526 µg/L	< 0.51 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.511 µg/L	< 0.521 µg/L	< 0.51 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.85 µg/L	n/a †	< 0.26 µg/L	< 0.263 µg/L	< 0.255 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1080 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	562 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.26 µg/L	< 0.263 µg/L	< 0.258 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 105 µg/L	< 107 µg/L	< 103 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.521 µg/L	< 0.526 µg/L	< 0.51 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.5 µg/L	< 0.581 µg/L	< 0.581 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	61.5 µg/L	4.46 µg/L (J)	15.2 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.025 - 0.061 µg/L	2.52 µg/L	n/a †	0.1 µg/L	0.255 µg/L	0.058 µg/L (J)
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.523 µg/L	< 0.526 µg/L	< 0.51 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.26 µg/L	< 0.263 µg/L	< 0.255 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0113 µg/L	n/a †	< 0.021 µg/L	< 0.026 µg/L	< 0.015 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.511 µg/L	< 0.526 µg/L	< 0.51 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.511 µg/L	< 0.526 µg/L	< 0.51 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.521 µg/L	< 0.526 µg/L	< 0.51 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12800 µg/L	0.757 µg/L (J)	0.527 µg/L (J)	0.388 µg/L (J)
Ethylene Glycol	< 265 - 7318 µg/L	1680000 µg/L	1840000 µg/L	< 0.545 µg/L	< 0.545 µg/L	< 0.265 mg/L
Fluoranthene	< 0.013 - 0.152 µg/L	20 µg/L	n/a †	0.586 µg/L	1.3 µg/L	0.257 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	0.429 µg/L	0.418 µg/L	0.11 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - November 30, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS001		WS002		WS005		WS004
				PNTX1120V001B Pending Validation	PNTX1120X001A Pending Validation	PNTX1120Y001B Pending Validation	PNTX1120N002A Pending Validation	PNTX1120X002B Pending Validation	PNTX1120X003A Pending Validation	PNTX1120X003B Pending Validation
Hexachlorobenzene	<0.5 - 0.525 ug/L	0.00045 ug/L	n/a †	<0.5 ug/L						
Hexachlorobutadiene	<0.3 - 0.525 ug/L	0.22 ug/L	6.9 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
Hexachlorocyclopentadiene	<1 - 1.58 ug/L	11.6 ug/L	255 ug/L	<1.5 ug/L	<1.5 ug/L	<1.5 ug/L	<1.5 ug/L	<1.5 ug/L	<1.5 ug/L	<1.5 ug/L
Hexachloroethane	<0.5 - 0.525 ug/L	0.23 ug/L	n/a †	<0.5 ug/L						
Indeno(1,2,3-cd)pyrene	<0.013 - 0.048 ug/L	0.013 ug/L	n/a †	0.026 ug/L (J)	0.024 ug/L (J)	<0.01 ug/L	<0.01 ug/L	0.079 ug/L (J)	0.133 ug/L	0.056 ug/L (J)
Isophorone	<0.5 - 0.525 ug/L	16000 ug/L	10400 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
Isopropylbenzene (Cumene)	<0.2 - 0.6 ug/L	n/a †	8440 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
m,p-Cresol	<0.25 - 0.276 ug/L	n/a †	19500 ug/L	<0.25 ug/L	1.69 ug/L (J)	<0.25 ug/L				
m,p-Xylene	<0.2 - 0.2 ug/L	n/a †	n/a †	2.34 ug/L (J)	5.22 ug/L (J)	2.25 ug/L (J)	0.382 ug/L (J)	0.462 ug/L (J)	0.982 ug/L (J)	1.74 ug/L (J)
Methyl iodide	<0.5 - 0.5 ug/L	n/a †	670 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
Methylene chloride	<0.2 - 0.212 ug/L	13000 ug/L	3370 ug/L	0.594 ug/L (J)	<0.2 ug/L	0.718 ug/L (J)	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	0.79 ug/L (J)
n-Butylbenzene	<0.2 - 0.7 ug/L	n/a †	1600 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
n-Nitrosodi-n-propylamine	<0.5 - 0.525 ug/L	5.1 ug/L	1.98 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
n-Nitrosodimethylamine	<0.5 - 0.525 ug/L	50 ug/L	0.952 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
n-Nitrosodiphenylamine	<0.5 - 0.525 ug/L	60 ug/L	421 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
n-Propylbenzene	<0.5 - 0.5 ug/L	n/a †	2950 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
Naphthalene	<0.013 - 0.2 ug/L	n/a †	2550 ug/L	5.69 ug/L	7.31 ug/L (J)	4.46 ug/L	0.497 ug/L	0.473 ug/L	3.06 ug/L (J)	4.5 ug/L
Nitrobenzene	<0.5 - 0.525 ug/L	1672 ug/L	248 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
o-Cresol	<0.5 - 0.5 ug/L	n/a †	19500 ug/L	<0.5 ug/L	1.16 ug/L (J)	<0.5 ug/L				
o-Xylene	<0.2 - 0.2 ug/L	n/a †	227000 ug/L	1.57 ug/L (J)	2.4 ug/L (J)	1.5 ug/L (J)	<0.2 ug/L	0.226 ug/L (J)	0.451 ug/L (J)	0.716 ug/L (J)
Oil and Grease	<1500 - 0.1600 ug/L	n/a †	n/a †	<1.5 mg/L						
Pentachlorophenol	<0.5 - 0.6 ug/L	0.29 ug/L	9.32 ug/L	<0.5 ug/L	0.505 ug/L (J)	<0.5 ug/L				
PFHxS	<1.37 - 1.64 mg/L	n/a †	194 mg/L	n/a †	114 mg/L	221 mg/L	116 mg/L	159 mg/L	46.2 mg/L	133 mg/L
PFOA	<1.5 - 1.85 mg/L	n/a †	n/a †	15.5 mg/L	16.4 mg/L	16.4 mg/L	16.4 mg/L	20.9 mg/L	9.7 mg/L	11.7 mg/L
PFOS	<1.42 - 6 mg/L	n/a †	n/a †	570 mg/L	886 mg/L	886 mg/L	472 mg/L	472 mg/L	155 mg/L	303 mg/L
Phenanthrene	<0.013 - 0.048 ug/L	n/a †	1070 ug/L	0.72 ug/L (J)	1.2 ug/L (J)	0.848 ug/L	<0.013 ug/L	<0.013 ug/L	1.96 ug/L (J)	1.37 ug/L (J)
Phenol	<0.5 - 0.558 ug/L	200000 ug/L	160000 ug/L	<0.5 ug/L	0.558 ug/L (J)	<0.5 ug/L				
Pyrene	<0.026 - 0.037 ug/L	30 ug/L	n/a †	0.074 ug/L	0.511 ug/L (J)	0.228 ug/L	<0.026 ug/L	<0.026 ug/L	0.759 ug/L (J)	0.914 ug/L
Pyridine	<0.5 - 1.56 ug/L	947 ug/L	717 ug/L	<1.5 ug/L	<1.5 ug/L	<1.5 ug/L	<1.5 ug/L	<1.5 ug/L	<1.5 ug/L	<1.5 ug/L
sec-Butylbenzene	<0.2 - 0.5 ug/L	n/a †	1950 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Styrene	<0.2 - 0.8 ug/L	n/a †	29600 ug/L	2.39 ug/L (J)	5.31 ug/L	3.04 ug/L (J)	0.311 ug/L (J)	0.426 ug/L (J)	1.03 ug/L (J)	1.87 ug/L (J)
tert-Butyl methyl ether (MTBE)	<0.2 - 0.2 ug/L	n/a †	10462 ug/L	0.1 ug/L	15.1 ug/L	11.8 ug/L	1.22 mg/L	1.18 mg/L	44.3 mg/L	33.3 mg/L
tert-Butylbenzene	<0.2 - 0.5 ug/L	n/a †	1400 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Tetrachloroethene	<0.2 - 0.6 ug/L	280 ug/L	148 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Toluene	<0.2 - 0.7 ug/L	1000 ug/L	16500 ug/L	2.61 ug/L (J)	3.75 ug/L (J)	2.64 ug/L (J)	<0.2 ug/L	1.32 ug/L (J)	0.424 ug/L (J)	0.99 ug/L (J)
Total Organic Carbon	<500 - 3350 ug/L	n/a †	n/a †	44 mg/L	6 mg/L	48.1 mg/L	85.1 mg/L	55.3 mg/L	33.5 mg/L	40.4 mg/L
Total TPH (C6-C9)	<107 - 1103 ug/L	n/a †	n/a †	<107 ug/L	247 mg/L	185 ug/L (J)	269 ug/L (J)	149 ug/L (J)	742 ug/L (J)	761 ug/L (J)
trans-1,2-Dichloroethene	<0.2 - 0.6 ug/L	4000 ug/L	6950 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
trans-1,3-Dichloropropene	<0.2 - 0.3 ug/L	n/a †	250 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 ug/L	n/a †	n/a †	<0.5 ug/L						
Trichloroethene	<0.2 - 0.7 ug/L	71.9 ug/L	1010 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Trichlorofluoromethane	<0.2 - 0.2 ug/L	n/a †	49300 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Trichlorotrifluoroethane	<0.2 - 0.2 ug/L	n/a †	6040000 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Vinyl acetate	<0.2 - 0.2 ug/L	n/a †	748000 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Vinyl chloride	<0.2 - 0.1 ug/L	11.3 ug/L	16.5 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Xylene (total)	<0.4 - 0.1 ug/L	n/a †	24000 ug/L	4.51 ug/L (J)	7.62 ug/L (J)	4.76 ug/L (J)	0.57 ug/L (J)	0.7 ug/L (J)	1.48 ug/L (J)	2.46 ug/L (J)

Detection Color Code

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS003

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water DISEL Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - November 30, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS004	WS006	
				PNTX1120X004B Pending Validation	PNTX1120X006A Pending Validation	PNTX1120X006B Pending Validation
Hexachlorobenzene	< 0.5 - 0.525 ug/L	0.00045 ug/L	n/a †	< 0.521 ug/L	< 0.532 ug/L	< 0.511 ug/L
Hexachlorobutadiene	< 0.3 - 0.525 ug/L	0.22 ug/L	6.9 ug/L	< 0.521 ug/L	< 0.532 ug/L	< 0.511 ug/L
Hexachlorocyclopentadiene	< 1 - 1.58 ug/L	11.6 ug/L	255 ug/L	< 1.58 ug/L	< 1.58 ug/L	< 1.58 ug/L
Hexachloroethane	< 0.5 - 0.525 ug/L	0.233 ug/L	n/a †	< 0.521 ug/L	< 0.532 ug/L	< 0.511 ug/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.098 ug/L	0.013 ug/L	n/a †	0.07 ug/L (J)	0.214 ug/L	0.033 ug/L (J)
Isophorone	< 0.5 - 0.525 ug/L	16000 ug/L	10400 ug/L	< 0.521 ug/L	< 0.532 ug/L	< 0.511 ug/L
Isopropylbenzene (Cumene)	< 0.2 - 0.8 ug/L	n/a †	8440 ug/L	< 0.8 ug/L	< 0.8 ug/L	< 0.8 ug/L
m,p-Cresol	< 0.25 - 0.278 ug/L	n/a †	19500 ug/L	< 0.26 ug/L	< 0.278 ug/L	< 0.26 ug/L
m,p-Xylene	< 0.2 - 0.8 ug/L	n/a †	n/a †	1.23 ug/L (J)	0.763 ug/L (J)	0.444 ug/L (J)
Methyl iodide	< 0.5 - 0.5 ug/L	n/a †	670 ug/L	< 0.5 ug/L	< 0.5 ug/L	< 0.5 ug/L
Methylene chloride	< 0.2 - 2.12 ug/L	13033 ug/L	3370 ug/L	0.733 ug/L (J)	< 0.2 ug/L	0.733 ug/L (J)
n-Butylbenzene	< 0.2 - 0.7 ug/L	n/a †	1600 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.525 ug/L	5.1 ug/L	1.98 ug/L	< 0.521 ug/L	< 0.532 ug/L	< 0.511 ug/L
n-Nitrosodimethylamine	< 0.5 - 0.525 ug/L	50 ug/L	0.952 ug/L	< 0.521 ug/L	< 0.532 ug/L	< 0.511 ug/L
n-Nitrosodiphenylamine	< 0.5 - 0.525 ug/L	60 ug/L	421 ug/L	< 0.521 ug/L	< 0.532 ug/L	< 0.511 ug/L
n-Propylbenzene	< 0.5 - 1 ug/L	n/a †	2550 ug/L	< 1 ug/L	< 1 ug/L	< 1 ug/L
Naphthalene	< 0.013 - 0.2 ug/L	n/a †	2550 ug/L	1.75 ug/L	1.51 ug/L	0.501 ug/L
Nitrobenzene	< 0.5 - 0.525 ug/L	1672 ug/L	248 ug/L	< 0.521 ug/L	< 0.532 ug/L	< 0.511 ug/L
o-Cresol	< 0.5 - 0.5 ug/L	n/a †	19500 ug/L	< 0.521 ug/L	< 0.532 ug/L	< 0.511 ug/L
o-Xylene	< 0.2 - 0.8 ug/L	n/a †	227000 ug/L	0.553 ug/L (J)	0.486 ug/L (J)	0.246 ug/L (J)
Oil and Grease	< 1500 - 14600 ug/L	n/a †	n/a ‡	< 1.5 mg/L	< 1.5 mg/L	< 1.5 mg/L
Pentachlorophenol	< 0.5 - 0.6 ug/L	0.29 ug/L	9.32 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	45.3 ng/L	43.3 ng/L	33.5 ng/L
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	0.77 ng/L	0.59 ng/L	0.71 ng/L
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	3.8 ng/L	3.8 ng/L	3.8 ng/L
Phenanthrene	< 0.013 - 0.098 ug/L	n/a †	1070 ug/L	0.69 ug/L	2.39 ug/L	0.537 ug/L
Phenol	< 0.5 - 0.555 ug/L	200000 ug/L	160000 ug/L	< 0.521 ug/L	< 0.532 ug/L	< 0.511 ug/L
Pyrene	< 0.026 - 0.087 ug/L	30 ug/L	n/a †	0.77 ug/L	1.51 ug/L	0.261 ug/L
Pyridine	< 0.5 - 1.56 ug/L	947 ug/L	717 ug/L	< 1.56 ug/L	< 1.56 ug/L	< 1.56 ug/L
sec-Butylbenzene	< 0.2 - 0.8 ug/L	n/a †	1950 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Styrene	< 0.2 - 0.8 ug/L	n/a †	29500 ug/L	1.3 ug/L (J)	0.859 ug/L (J)	0.445 ug/L (J)
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 ug/L	10462 ug/L	5470 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
tert-Butylbenzene	< 0.2 - 0.8 ug/L	n/a †	1400 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Tetrachloroethene	< 0.2 - 0.6 ug/L	280 ug/L	148 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Toluene	< 0.2 - 0.7 ug/L	1000 ug/L	18500 ug/L	0.659 ug/L (J)	0.448 ug/L (J)	< 0.2 ug/L
Total Organic Carbon	< 500 - 3350 ug/L	n/a †	n/a ‡	35.3 mg/L	35.8 mg/L	45.9 mg/L
Total TPH (C6-C9)	< 107 - 1103 ug/L	n/a †	n/a ‡	286 ug/L (J)	< 5.177 ug/L	603 ug/L (J)
trans-1,2-Dichloroethene	< 0.2 - 0.6 ug/L	4000 ug/L	6950 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
trans-1,3-Dichloropropene	< 0.2 - 0.3 ug/L	n/a †	250 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 ug/L	n/a †	n/a †	< 0.5 ug/L	< 0.5 ug/L	< 0.5 ug/L
Trichloroethene	< 0.2 - 0.7 ug/L	71.9 ug/L	1010 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Trichlorofluoromethane	< 0.2 - 0.2 ug/L	n/a †	43300 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Trichlorotrifluoroethane	< 0.2 - 0.2 ug/L	n/a †	6040000 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Vinyl acetate	< 0.2 - 0.2 ug/L	n/a †	748000 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Vinyl chloride	< 0.2 - 1 ug/L	16.5 ug/L	11.3 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Xylene (total)	< 0.4 - 1 ug/L	n/a †	24000 ug/L	1.79 ug/L (J)	1.26 ug/L (J)	0.69 ug/L (J)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS003

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water DSEL Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate



South 4 Group Fire

Surface Water Screening Values - December 1, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS006		WS009	WS010
				PNTX1201X006A	PNTX1201X006B	PNTX1201Y003	PNTX1201X010
				Pending Validation	Level 2 Verified	Level 2 Verified	Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.185 µg/L	0.06 µg/L (J)	<0.045 µg/L	0.45 µg/L
1,1-Dichloroethane	<0.2 - <0.2 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	3600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.6 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3289 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.526 µg/L	<0.526 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.526 µg/L	<0.526 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3250 µg/L	0.796 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	29.9 µg/L	10.7 µg/L	10.7 µg/L	156 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	536 µg/L	9760 µg/L	<0.2 µg/L	<0.2 µg/L	<0.526 µg/L	<0.526 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.526 µg/L	<0.526 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	4.22 µg/L (J)	4.22 µg/L (J)	<0.2 µg/L	8.26 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	<1 µg/L	1 µg/L (P)	1 µg/L (P)	1 µg/L (Q)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5480 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	0.526 µg/L (P)
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	0.189 µg/L	0.102 µg/L (J)	<0.045 µg/L	0.475 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	156 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
2-Nitrophenol	<0.5 - <0.6 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	0.526 µg/L (Q)
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	0.526 µg/L (R)
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	0.526 µg/L (P)
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	300 µg/L	1270 µg/L	<1.5 µg/L	<1.5 µg/L	<1.67 µg/L	1.72 µg/L (Q)
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	0.526 µg/L (R)
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	0.526 µg/L (P)
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.526 µg/L	2000 µg/L	820 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	0.526 µg/L (Q)
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.58 µg/L	n/a †	966 µg/L	<1.5 µg/L	<1.5 µg/L	<1.67 µg/L	<1.72 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<1.5 µg/L	<1.5 µg/L	<1.67 µg/L	1.72 µg/L (Q)
4,6-Dinitro-2-methylphenol	<0.5 - <1.67 µg/L	30 µg/L	30 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	1.72 µg/L (Q)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS006 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL available  
(R) QC Rejected for unreliable result  
(J) Quantitative is approximate



# South 4 Group Fire

Surface Water Screening Values - December 1, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS006		WS009	WS010
				PNTX1201X006A	PNTX1201X006B	PNTX1201Y003	PNTX1201X010
				Pending Validation	Level 2 Verified	Level 2 Verified	Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a ‡	89.5 µg/L	119 µg/L	< 124 µg/L	< 127 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a ‡	< 124 µg/L	< 124 µg/L	< 124 µg/L	< 127 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 1.5 µg/L	< 0.85 µg/L	< 0.94 µg/L	0.36 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	< 0.3 µg/L	< 0.49 µg/L	< 0.45 µg/L	4.7 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	790000 µg/L	5.73 µg/L	< 5.77 µg/L	< 1.11 µg/L	< 9.5 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.51 µg/L	< 2.0 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.5 - 0.785 µg/L	n/a †	4630 µg/L	< 0.745 µg/L	< 0.745 µg/L	< 0.84 µg/L	< 0.84 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	0.257 µg/L	0.106 µg/L (J)	< 0.045 µg/L	0.46 µg/L
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	< 1 µg/L	0.594 µg/L (J)	< 0.71 µg/L	7.33 µg/L
Benzidine	< 1 - 2.63 µg/L	0.207 µg/L	0.156 µg/L	< 2.66 µg/L	< 2.5 µg/L	< 2.78 µg/L	< 2.67 µg/L
Benzo(a)anthracene	< 0.025 - 0.077 µg/L	0.025 µg/L	n/a †	0.054 µg/L (J)	0.051 µg/L (J)	< 0.025 µg/L	0.405 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	0.046 µg/L (J)	0.044 µg/L (J)	< 0.014 µg/L	0.503 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	0.044 µg/L (J)	0.041 µg/L (J)	< 0.014 µg/L	0.092 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	0.041 µg/L (J)	0.035 µg/L (J)	< 0.013 µg/L	0.40 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.025 µg/L	< 0.027 µg/L	< 0.025 µg/L	< 1.28 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 1.07 µg/L	1.72 µg/L (P)
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.85 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.278 µg/L	< 0.267 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.427 µg/L (J)
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	502 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7800 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.278 µg/L	< 0.267 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	4.400 µg/L	< 107 µg/L	< 107 µg/L	< 105 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	4.89 µg/L (J)	19.51 µg/L	< 0.2 µg/L	7.0 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.025 - 0.061 µg/L	2.52 µg/L	n/a †	0.085 µg/L (J)	0.039 µg/L (J)	< 0.025 µg/L	0.39 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.278 µg/L	< 0.267 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0113 µg/L	n/a †	< 0.025 µg/L	< 0.027 µg/L	< 0.025 µg/L	< 0.025 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	3.74 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	25.7 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	0.495 mg/L (J)	0.429 mg/L (J)	0.915 mg/L (J)	0.569 mg/L (J)
Fluoranthene	< 0.013 - 0.102 µg/L	20 µg/L	n/a †	0.25 µg/L	0.039 µg/L	< 0.013 µg/L	0.31 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	0.273 µg/L	0.341 µg/L	< 0.045 µg/L	1.70 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 1, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS001		WS002		WS003		WS004	
				PNTX1201X001A Pending Validation	PNTX1201X001B Level 2 Verified	PNTX1201X002A Pending Validation	PNTX1201X002B Level 2 Verified	PNTX1201X003A Pending Validation	PNTX1201X003B Level 2 Verified	PNTX1201X004A Pending Validation	PNTX1201X004B Level 2 Verified
Hexachlorobenzene	<0.5 - 0.526 ug/L	0.00046 ug/L	n/a †	<0.5 ug/L	<0.526 ug/L	<0.51 ug/L	<0.51 ug/L	<0.51 ug/L	<0.5 ug/L	<0.521 ug/L	<0.558 ug/L
Hexachlorobutadiene	<0.3 - 0.526 ug/L	0.22 ug/L	6.9 ug/L	<0.5 ug/L	<0.521 ug/L	<0.521 ug/L	<0.521 ug/L	<0.5 ug/L	<0.5 ug/L	<0.521 ug/L	<0.558 ug/L
Hexachlorocyclopentadiene	<1 - 1.58 ug/L	11.6 ug/L	258 ug/L	<1.5 ug/L	<1.58 ug/L	<1.58 ug/L	<1.58 ug/L	<1.58 ug/L	<1.5 ug/L	<1.58 ug/L	<1.61 ug/L
Hexachloroethane	<0.5 - 0.526 ug/L	0.33 ug/L	n/a †	<0.5 ug/L	<0.526 ug/L	<0.521 ug/L	<0.521 ug/L	<0.5 ug/L	<0.5 ug/L	<0.521 ug/L	<0.558 ug/L
Indeno(1,2,3-cd)pyrene	<0.013 - 0.098 ug/L	0.013 ug/L	n/a †	<0.013 ug/L	<0.013 ug/L	<0.013 ug/L	<0.013 ug/L	<0.013 ug/L	0.152 ug/L	0.086 ug/L (J)	0.097 ug/L (J)
Isophorone	<0.5 - 0.526 ug/L	16000 ug/L	10400 ug/L	<0.5 ug/L	<0.521 ug/L	<0.521 ug/L	<0.521 ug/L	<0.5 ug/L	<0.5 ug/L	<0.521 ug/L	<0.558 ug/L
Isopropylbenzene (Cumene)	<0.2 - 0.8 ug/L	n/a †	8440 ug/L	<0.2 ug/L	<0.8 ug/L	<0.2 ug/L	<0.8 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.8 ug/L
m,p-Cresol	<0.25 - 0.276 ug/L	n/a †	19500 ug/L	<0.25 ug/L	<0.276 ug/L	<0.25 ug/L	<0.276 ug/L	<0.25 ug/L	<0.25 ug/L	<0.25 ug/L	<0.276 ug/L
m,p-Xylene	<0.2 - 0.8 ug/L	n/a †	n/a †	1.74 ug/L (J)	1.24 ug/L (J)	0.914 ug/L (J)	0.561 ug/L (J)	1.92 ug/L (J)	1.5 ug/L (J)	1.06 ug/L (J)	1.14 ug/L (J)
Methyl iodide	<0.5 - 0.5 ug/L	n/a †	670 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
Methylene chloride	<0.2 - 2.12 ug/L	13033 ug/L	3370 ug/L	0.454 ug/L (J)	<0.2 ug/L	0.543 ug/L (J)	<0.2 ug/L	0.796 ug/L (J)	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
n-Butylbenzene	<0.2 - 0.7 ug/L	n/a †	1600 ug/L	<0.2 ug/L	<0.7 ug/L	<0.2 ug/L	<0.7 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.7 ug/L
n-Nitrosodi-n-propylamine	<0.5 - 0.526 ug/L	9.1 ug/L	1.98 ug/L	<0.5 ug/L	<0.521 ug/L	<0.521 ug/L	<0.521 ug/L	<0.5 ug/L	<0.5 ug/L	<0.521 ug/L	<0.558 ug/L
n-Nitrosodimethylamine	<0.5 - 0.526 ug/L	50 ug/L	0.962 ug/L	<0.5 ug/L	<0.521 ug/L	<0.521 ug/L	<0.521 ug/L	<0.5 ug/L	<0.5 ug/L	<0.521 ug/L	<0.558 ug/L
n-Nitrosodiphenylamine	<0.5 - 0.526 ug/L	60 ug/L	421 ug/L	<0.5 ug/L	<0.521 ug/L	<0.521 ug/L	<0.521 ug/L	<0.5 ug/L	<0.5 ug/L	<0.521 ug/L	<0.558 ug/L
n-Propylbenzene	<0.5 - 1 ug/L	n/a †	2950 ug/L	<0.5 ug/L	<1 ug/L	<0.5 ug/L	<1 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<1 ug/L
Naphthalene	<0.013 - 0.2 ug/L	n/a †	2550 ug/L	1.56 ug/L	4.18 ug/L	1.38 ug/L	1.12 ug/L	0.38 ug/L	0.04 ug/L	2.98 ug/L	3.19 ug/L
Nitrobenzene	<0.5 - 0.526 ug/L	1672 ug/L	248 ug/L	<0.5 ug/L	<0.521 ug/L	<0.521 ug/L	<0.521 ug/L	<0.5 ug/L	<0.5 ug/L	<0.521 ug/L	<0.558 ug/L
o-Cresol	<0.5 - 0.5 ug/L	n/a †	19500 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
o-Xylene	<0.2 - 0.8 ug/L	n/a †	227000 ug/L	0.309 ug/L (J)	0.618 ug/L (J)	0.291 ug/L (J)	0.224 ug/L (J)	0.576 ug/L (J)	0.528 ug/L (J)	0.548 ug/L (J)	0.596 ug/L (J)
Oil and Grease	<1500 - 1600 ug/L	n/a †	n/a †	<1.5 mg/L	<1.6 mg/L	1.8 mg/L (J)	<1.5 mg/L	2.7 mg/L (J)	2.7 mg/L (J)	1.7 mg/L	1.7 mg/L
Pentachlorophenol	<0.5 - 0.6 ug/L	0.29 ug/L	9.32 ug/L	<0.5 ug/L	8.76 ug/L (J)	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
PFHxS	<1.37 - 1.64 mg/L	n/a †	n/a †	1.11 mg/L	1.13 mg/L	0.84 mg/L	0.84 mg/L	1.09 mg/L	1.09 mg/L	1.09 mg/L	1.09 mg/L
PFOA	<1.5 - 1.85 mg/L	n/a †	n/a †	2.73 mg/L	15.4 mg/L	90.8 mg/L	23.8 mg/L	2.2 mg/L	21 mg/L	25.2 mg/L	22.6 mg/L
PFOS	<1.42 - 6 mg/L	n/a †	n/a †	<1 mg/L	1.84 mg/L	112 mg/L	495 mg/L	254 mg/L	357 mg/L	211 mg/L	241 mg/L
Phenanthrene	<0.013 - 0.098 ug/L	n/a †	1070 ug/L	0.05 ug/L	0.031 ug/L	<0.013 ug/L	<0.013 ug/L	3.14 ug/L	2.11 ug/L	1.79 ug/L	2.92 ug/L
Phenol	<0.5 - 0.558 ug/L	300000 ug/L	160000 ug/L	<0.5 ug/L	<0.558 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.558 ug/L
Pyrene	<0.026 - 0.087 ug/L	30 ug/L	n/a †	0.75 ug/L	0.91 ug/L	<0.026 ug/L	<0.026 ug/L	1.93 ug/L	1.1 ug/L	0.727 ug/L	0.914 ug/L
Pyridine	<0.5 - 1.56 ug/L	947 ug/L	717 ug/L	<0.5 ug/L	<1.56 ug/L	<0.5 ug/L	<1.56 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<1.56 ug/L
sec-Butylbenzene	<0.2 - 0.8 ug/L	n/a †	1950 ug/L	<0.2 ug/L	<0.8 ug/L	<0.2 ug/L	<0.8 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.8 ug/L
Styrene	<0.2 - 0.8 ug/L	n/a †	29600 ug/L	1.5 ug/L (J)	1.05 ug/L (J)	0.476 ug/L (J)	0.325 ug/L (J)	0.972 ug/L (J)	1.06 ug/L (J)	1.02 ug/L (J)	0.899 ug/L (J)
tert-Butyl methyl ether (MTBE)	<0.2 - 0.8 ug/L	10462 ug/L	5470 ug/L	14.1 ug/L	7.7 ug/L	60.8 ug/L	47.7 ug/L	34.4 mg/L	32.9 mg/L	40.3 mg/L	36.7 mg/L
tert-Butylbenzene	<0.2 - 0.8 ug/L	n/a †	1400 ug/L	<0.2 ug/L	<0.8 ug/L	<0.2 ug/L	<0.8 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.8 ug/L
Tetrachloroethene	<0.2 - 0.8 ug/L	280 ug/L	148 ug/L	<0.2 ug/L	<0.8 ug/L	<0.2 ug/L	<0.8 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.8 ug/L
Toluene	<0.2 - 0.7 ug/L	1000 ug/L	16500 ug/L	1.6 ug/L (J)	1.46 ug/L (J)	1.58 ug/L (J)	1.23 ug/L (J)	0.994 ug/L (J)	0.663 ug/L (J)	0.6 ug/L (J)	0.926 ug/L (J)
Total Organic Carbon	<550 - 3350 ug/L	n/a †	n/a †	39.2 mg/L	11.3 mg/L	53.4 mg/L	49.1 mg/L	29.3 mg/L	33.1 mg/L	30.1 mg/L	27.7 mg/L
Total TPH (C6-C9)	<107 - 1103 ug/L	n/a †	n/a †	22.700 ug/L	<104 ug/L	24.170 ug/L	<176 ug/L	27.590 ug/L	<111 ug/L	1,270 ug/L (J)	<118 ug/L
trans-1,2-Dichloroethene	<0.2 - 0.6 ug/L	4000 ug/L	6950 ug/L	<0.2 ug/L	<0.6 ug/L	<0.2 ug/L	<0.6 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.6 ug/L
trans-1,3-Dichloropropene	<0.2 - 1 ug/L	n/a †	250 ug/L	<0.2 ug/L	<1 ug/L	<0.2 ug/L	<1 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<1 ug/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 ug/L	n/a †	n/a †	<0.5 ug/L	<0.5 ug/L						
Trichloroethene	<0.2 - 0.7 ug/L	71.9 ug/L	1010 ug/L	<0.2 ug/L	<0.7 ug/L	<0.2 ug/L	<0.7 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.7 ug/L
Trichlorofluoromethane	<0.2 - 0.8 ug/L	n/a †	43300 ug/L	<0.2 ug/L	<0.8 ug/L	<0.2 ug/L	<0.8 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.8 ug/L
Trichlorotrifluoroethane	<0.2 - 0.2 ug/L	n/a †	6040000 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Vinyl acetate	<0.2 - 0.2 ug/L	n/a †	748000 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Vinyl chloride	<0.2 - 1 ug/L	11.3 ug/L	16.5 ug/L	<0.2 ug/L	<1 ug/L	<0.2 ug/L	<1 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<1 ug/L
Xylene (total)	<0.4 - 1 ug/L	n/a †	24000 ug/L	2.65 ug/L (J)	1.86 ug/L (J)	1.11 ug/L (J)	0.785 ug/L (J)	1.89 ug/L (J)	1.63 ug/L (J)	1.51 ug/L (J)	1.57 ug/L (J)

**Detection Color Code**

- Detected
- Pending Validation
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS005

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

# South 4 Group Fire

Surface Water Screening Values - December 1, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS006		WS009	WS010
				PNTX1201X006A	PNTX1201X006B	PNTX1201Y003	PNTX1201X010
				Pending Validation	Level 2 Verified	Level 2 Verified	Level 2 Verified
Hexachlorobenzene	<0.5 - 0.526 µg/L	0.00045 µg/L	n/a †	<0.5 µg/L	<0.5 µg/L	<0.546 µg/L	<0.576 µg/L
Hexachlorobutadiene	<0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	<0.5 µg/L	<0.5 µg/L	<0.588 µg/L	<0.678 µg/L
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	255 µg/L	<1.5 µg/L	<1.5 µg/L	<1.57 µg/L	<1.72 µg/L
Hexachloroethane	<0.5 - 0.526 µg/L	0.33 µg/L	n/a †	<0.5 µg/L	<0.5 µg/L	<0.548 µg/L	<0.578 µg/L
Indeno(1,2,3-cd)pyrene	<0.013 - 0.088 µg/L	0.013 µg/L	n/a †	0.039 µg/L (J)	0.08 µg/L (J)	<0.014 µg/L	<0.06 µg/L
Isophorone	<0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.580 µg/L	<0.670 µg/L
Isopropylbenzene (Cumene)	<0.2 - <0.8 µg/L	n/a †	n/a †	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L
m,p-Cresol	<0.26 - <0.276 µg/L	n/a †	19500 µg/L	<0.26 µg/L	<0.276 µg/L	<0.276 µg/L	0.287 µg/L (R)
m,p-Xylene	<0.2 - <0.8 µg/L	n/a †	n/a †	5.8 µg/L (J)	<0.8 µg/L	<0.8 µg/L	0.396 µg/L (J)
Methyl iodide	<0.5 - <0.5 µg/L	n/a †	670 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Methylene chloride	<0.2 - <2.12 µg/L	13033 µg/L	3370 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Butylbenzene	<0.2 - <0.7 µg/L	n/a †	1400 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Nitrosodi-n-propylamine	<0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	<0.5 µg/L	<0.5 µg/L	<0.588 µg/L	<0.678 µg/L
n-Nitrosodimethylamine	<0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	<0.5 µg/L	<0.5 µg/L	<0.588 µg/L	<0.678 µg/L
n-Nitrosodiphenylamine	<0.5 - 0.526 µg/L	60 µg/L	421 µg/L	<0.5 µg/L	<0.5 µg/L	<0.548 µg/L	<0.578 µg/L
n-Propylbenzene	<0.5 - <1 µg/L	n/a †	2550 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
Naphthalene	<0.013 - <2 µg/L	n/a †	2550 µg/L	1.04 µg/L	0.987 µg/L	<0.014 µg/L	4.56 µg/L
Nitrobenzene	<0.5 - 0.526 µg/L	1672 µg/L	248 µg/L	<0.5 µg/L	<0.5 µg/L	<0.548 µg/L	<0.578 µg/L
o-Cresol	<0.5 - <0.5 µg/L	n/a †	19500 µg/L	<0.5 µg/L	<0.5 µg/L	<0.548 µg/L	0.678 µg/L (R)
o-Xylene	<0.2 - <0.8 µg/L	n/a †	227000 µg/L	3.18 µg/L (J)	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L
Oil and Grease	<1500 - <1600 µg/L	n/a †	n/a †	1.7 mg/L (J)	<1.6 mg/L	<1.6 mg/L	2.8 mg/L (J)
Pentachlorophenol	<0.5 - <0.6 µg/L	0.29 µg/L	9.32 µg/L	<0.5 µg/L	<0.5 µg/L	<0.548 µg/L	0.578 µg/L (Q)
PFHxS	<1.37 - <1.64 ng/L	n/a †	n/a †	79.3 ng/L	116 ng/L	<1.54 ng/L	5 ng/L
PFOA	<1.5 - 1.85 ng/L	n/a †	n/a †	1.6 ng/L	95.4 ng/L	<1.8 ng/L	16 ng/L
PFOS	<1.42 - 6 ng/L	n/a †	n/a †	1,000 ng/L	107 ng/L	1.8 ng/L (J)	440 ng/L
Phenanthrene	<0.013 - 0.088 µg/L	n/a †	1070 µg/L	0.071 µg/L	0.145 µg/L	<0.014 µg/L	4.79 µg/L
Phenol	<0.5 - <0.556 µg/L	200000 µg/L	160000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.548 µg/L	0.578 µg/L (R)
Pyrene	<0.026 - 0.087 µg/L	30 µg/L	n/a †	0.54 µg/L	0.294 µg/L	<0.028 µg/L	2.61 µg/L
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	<1.5 µg/L	<1.5 µg/L	<1.57 µg/L	<1.72 µg/L
sec-Butylbenzene	<0.2 - <0.8 µg/L	n/a †	1950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Styrene	<0.2 - <0.8 µg/L	n/a †	29600 µg/L	7.37 µg/L	<0.8 µg/L	<0.8 µg/L	7.38 µg/L
tert-Butyl methyl ether (MTBE)	<0.2 - <0.8 µg/L	10462 µg/L	5470 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	42.3 µg/L
tert-Butylbenzene	<0.2 - <0.8 µg/L	n/a †	1400 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L
Tetrachloroethene	<0.2 - <0.6 µg/L	280 µg/L	146 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Toluene	<0.2 - <0.7 µg/L	1000 µg/L	16500 µg/L	5.09 µg/L (J)	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L
Total Organic Carbon	<550 - 3350 µg/L	n/a †	n/a †	38.1 mg/L	101.3 mg/L	8.83 mg/L	95.1 mg/L
Total TPH (C6-C9)	<107 - <103 µg/L	n/a †	n/a †	88.100 µg/L	<107 µg/L	<107 µg/L	<107 µg/L
trans-1,2-Dichloroethene	<0.2 - <0.6 µg/L	4000 µg/L	6950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,3-Dichloropropene	<0.2 - <1 µg/L	n/a †	280 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
trans-1,4-Dichloro-2-butene	<0.5 - <0.5 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Trichloroethene	<0.2 - <0.7 µg/L	71.9 µg/L	1010 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorofluoromethane	<0.2 - <0.8 µg/L	n/a †	43300 µg/L	1.28 µg/L (J)	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L
Trichlorotrifluoroethane	<0.2 - 0.2 µg/L	n/a †	6040000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl acetate	<0.2 - <0.2 µg/L	n/a †	748000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl chloride	<0.2 - <1 µg/L	16.5 µg/L	n/a †	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Xylene (total)	<0.4 - <1 µg/L	n/a †	24000 µg/L	9.38 µg/L (J)	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water PSEL Available

‡ No Contact Recreation PCL available

(R) QC Rejected for unreliable result

(J) Quantization is approximate



South 4 Group Fire

Surface Water Screening Values - December 2, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS006		WS010	WS011
				PNTX1202X006A	PNTX1202X006B	PNTX1202X010	PNTX1202X011
				Pending Validation	Level 2 Verified	Level 2 Verified	Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.079 µg/L (J)	0.085 µg/L (J)	0.167 µg/L (J)	<0.2 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48800 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3289 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	<0.4 µg/L	<1 µg/L	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	655 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	0.02 µg/L	0.03 µg/L	0.05 µg/L	<0.5 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.8 µg/L	332000 µg/L	491000 µg/L	0.79 µg/L (J)	4.09 µg/L (J)	9.4 µg/L	<0.2 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	1 µg/L (P)	5 µg/L (P)	1 µg/L (Q)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5480 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	<0.5 µg/L	<0.5 µg/L	0.5 µg/L (P)	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.8 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	0.085 µg/L (J)	0.086 µg/L (J)	0.176 µg/L (J)	<0.2 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	0.5 µg/L (K)	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	0.5 µg/L (R)	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	0.5 µg/L (P)	<0.5 µg/L
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	300 µg/L	1270 µg/L	<1 µg/L	<1 µg/L	1.5 µg/L (K)	<1.5 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	0.5 µg/L (R)	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.5 µg/L	0.5 µg/L (P)	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	820 µg/L	<0.5 µg/L	<0.5 µg/L	0.5 µg/L (K)	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	0.5 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorotoluene	<0.2 - <0.8 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<1 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	11.9 µg/L (J)	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.518 µg/L	n/a †	966 µg/L	<0.5 µg/L	<0.5 µg/L	<1 µg/L	<1.5 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<1 µg/L	<1 µg/L	1.5 µg/L (K)	<1.5 µg/L
4,6-Dinitro-2-methylphenol	<0.5 - <1.67 µg/L	30 µg/L	30 µg/L	<1 µg/L	<1 µg/L	1.5 µg/L (K)	<1.5 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(R) QC Rejected for unreliable result

(J) Quantitative is approximate



South 4 Group Fire

Surface Water Screening Values - December 2, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS006		WS010	WS011
				PNTX1202X006A	PNTX1202X006B	PNTX1202X010	PNTX1202X011
				Pending Validation	Level 2 Verified	Level 2 Verified	Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a ‡	< 25 µg/L	1391 µg/L	< 12 µg/L	< 12 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a ‡	< 25 µg/L	< 1211 µg/L	< 12 µg/L	< 12 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	0.061 µg/L (J)	0.04 µg/L (J)	0.065 µg/L (J)	< 0.03 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	0.335 µg/L (J)	0.233 µg/L (J)	1.91 µg/L (J)	< 0.74 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	790000 µg/L	1.3 µg/L	11.9 µg/L	11.4 µg/L	1.44 µg/L (J)
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 12.5 µg/L	< 2.0 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 3 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.785 µg/L	n/a †	4630 µg/L	< 0.733 µg/L	< 0.733 µg/L	10.77 µg/L	10.77 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1317 µg/L	10700 µg/L	0.063 µg/L (J)	0.064 µg/L (J)	0.315 µg/L (J)	< 0.04 µg/L
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	0.304 µg/L (J)	1.25 µg/L (J)	6.92 µg/L (J)	< 0.2 µg/L
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.5 µg/L	< 2.5 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	0.034 µg/L (J)	0.056 µg/L (J)	0.107 µg/L (J)	< 0.02 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	0.025 µg/L (J)	0.05 µg/L (J)	0.113 µg/L (J)	< 0.01 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	0.033 µg/L (J)	0.044 µg/L (J)	0.069 µg/L (J)	< 0.02 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	0.036 µg/L (J)	0.034 µg/L (J)	0.115 µg/L (J)	< 0.01 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L	< 0.026 µg/L	0.04 µg/L (J)	< 0.02 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 1.5 µg/L	< 1.5 µg/L	1.5 µg/L (P)	< 1.5 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	10.5 µg/L	10.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	0.556 µg/L (J)	4.0 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.55 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	11 µg/L	10.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28600 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 11 µg/L	< 0.4 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	0.544 µg/L (J)	0.422 µg/L (J)	< 1 µg/L	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 1.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	10.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7800 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 100 µg/L	< 104 µg/L	621 µg/L (J)	< 109 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 1.25 µg/L	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	1.25 µg/L	10.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	11.7 µg/L	9.65 µg/L	12.2 µg/L (J)	< 0.4 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Chrysene	< 0.026 - 0.061 µg/L	2.52 µg/L	n/a †	0.039 µg/L (J)	0.053 µg/L (J)	0.097 µg/L (J)	< 0.02 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	11 µg/L	10.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	153 µg/L	363 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	1.25 µg/L	10.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	0.424 µg/L (J)	4.1 µg/L	10.2 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.5 µg/L	0.529 mg/L (J)	0.82 mg/L (J)	0.765 mg/L (J)
Fluoranthene	< 0.013 - 0.102 µg/L	20 µg/L	n/a †	0.123 µg/L	0.143 µg/L (J)	0.669 µg/L (J)	< 0.03 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.041 µg/L	0.103 µg/L (J)	0.411 µg/L (J)	< 0.04 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 2, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS001		WS002		WS003		WS004	
				PNTX1202X001A Pending Validation	PNTX1202X001B Level 2 Verified	PNTX1202Y002A Pending Validation	PNTX1202Y002B Level 2 Verified	PNTX1202Z003A Pending Validation	PNTX1202Z003B Level 2 Verified	PNTX1202X004A Pending Validation	PNTX1202X004B Level 2 Verified
Hexachlorobenzene	<0.5 - 0.525 ug/L	0.00045 ug/L	n/a †	<0.5 ug/L	<0.51 ug/L						
Hexachlorobutadiene	<0.3 - 0.525 ug/L	0.22 ug/L	6.9 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L
Hexachlorocyclopentadiene	<1 - 1.58 ug/L	11.6 ug/L	255 ug/L	<1 ug/L	<1.03 ug/L	<1 ug/L	<1.03 ug/L	<1 ug/L	<1.03 ug/L	<1 ug/L	<1.03 ug/L
Hexachloroethane	<0.5 - 0.525 ug/L	0.22 ug/L	n/a †	<0.5 ug/L	<0.51 ug/L						
Indeno(1,2,3-cd)pyrene	<0.013 - 0.088 ug/L	0.013 ug/L	n/a †	0.272 ug/L (J)	<0.013 ug/L	<0.013 ug/L	<0.013 ug/L	<0.013 ug/L	0.023 ug/L (J)	0.023 ug/L (J)	0.023 ug/L (J)
Isophorone	<0.5 - 0.525 ug/L	16000 ug/L	10400 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L
Isopropylbenzene (Cumene)	<0.2 - 0.6 ug/L	n/a †	8440 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
m,p-Cresol	<0.25 - 0.276 ug/L	n/a †	19500 ug/L	<0.25 ug/L	0.255 ug/L (K)	<0.25 ug/L	<0.25 ug/L	<0.25 ug/L	<0.25 ug/L	<0.25 ug/L	<0.25 ug/L
m,p-Xylene	<0.2 - 0.2 ug/L	n/a †	n/a †	1.58 ug/L (J)	1.11 ug/L (J)	0.398 ug/L (J)	0.409 ug/L (J)	<0.2 ug/L	<0.2 ug/L	0.296 ug/L (J)	0.291 ug/L (J)
Methyl iodide	<0.5 - 0.5 ug/L	n/a †	670 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
Methylene chloride	<0.2 - 0.212 ug/L	13033 ug/L	3370 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	0.626 ug/L (J)	<0.2 ug/L
n-Butylbenzene	<0.2 - 0.2 ug/L	n/a †	1600 ug/L	<0.2 ug/L	0.2 ug/L (J)	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
n-Nitrosodi-n-propylamine	<0.5 - 0.525 ug/L	5.1 ug/L	1.98 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L
n-Nitrosodimethylamine	<0.5 - 0.525 ug/L	50 ug/L	0.952 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L
n-Nitrosodiphenylamine	<0.5 - 0.525 ug/L	60 ug/L	421 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L	<0.5 ug/L	<0.51 ug/L
n-Propylbenzene	<0.5 - 0.5 ug/L	n/a †	2950 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
Naphthalene	<0.013 - 0.2 ug/L	n/a †	2550 ug/L	0.593 ug/L (J)	5.65 ug/L (J)	0.744 ug/L	1.18 ug/L (J)	0.304 ug/L	<0.2 ug/L	0.908 ug/L	<0.2 ug/L
Nitrobenzene	<0.5 - 0.525 ug/L	1672 ug/L	248 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
o-Cresol	<0.5 - 0.5 ug/L	n/a †	19500 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
o-Xylene	<0.2 - 0.2 ug/L	n/a †	227000 ug/L	0.397 ug/L (J)	0.568 ug/L (J)	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	0.204 ug/L (J)	<0.2 ug/L
Oil and Grease	<1500 - 1600 ug/L	n/a †	n/a †	<1.5 mg/L	<1.5 mg/L	<1.5 mg/L	4.5 mg/L (J)	1.5 mg/L (J)	3.4 mg/L (J)	1.6 mg/L (J)	2 mg/L (J)
Pentachlorophenol	<0.5 - 0.5 ug/L	0.29 ug/L	9.92 ug/L	<0.5 ug/L	0.51 ug/L (K)	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
PFHxS	<1.37 - 1.64 ng/L	n/a †	n/a †	30.4 ng/L	73.1 ng/L	38.1 ng/L	151 ng/L (J)	36.1 ng/L	103 ng/L	103 ng/L	248 ng/L
PFOA	<1.5 - 1.85 ng/L	n/a †	n/a †	6.44 ng/L (J)	11.4 ng/L	11.7 ng/L	18.6 ng/L	18.4 ng/L	36.1 ng/L	1.9 ng/L	25.2 ng/L
PFOS	<1.42 - 6 ng/L	n/a †	n/a †	388 ng/L	102 ng/L	305 ng/L	255 ng/L (J)	1.93 ng/L	249 ng/L (J)	2.8 ng/L	2.8 ng/L
Phenanthrene	<0.013 - 0.048 ug/L	n/a †	1070 ug/L	0.398 ug/L (J)	0.398 ug/L (J)	<0.013 ug/L	<0.013 ug/L	0.266 ug/L	0.436 ug/L	0.436 ug/L	0.746 ug/L
Phenol	<0.5 - 0.558 ug/L	200000 ug/L	160000 ug/L	<0.5 ug/L	0.63 ug/L (K)	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
Pyrene	<0.026 - 0.087 ug/L	30 ug/L	n/a †	0.088 ug/L (J)	0.157 ug/L (J)	<0.026 ug/L	<0.026 ug/L	0.072 ug/L (J)	0.251 ug/L	0.158 ug/L	0.21 ug/L
Pyridine	<0.5 - 1.56 ug/L	947 ug/L	717 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L
sec-Butylbenzene	<0.2 - 0.5 ug/L	n/a †	1950 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Styrene	<0.2 - 0.8 ug/L	n/a †	29600 ug/L	0.577 ug/L (J)	0.818 ug/L (J)	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	0.286 ug/L (J)	0.324 ug/L (J)	<0.2 ug/L
tert-Butyl methyl ether (MTBE)	<0.2 - 0.2 ug/L	10462 ug/L	5470 ug/L	<0.2 ug/L	0.31 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
tert-Butylbenzene	<0.2 - 0.5 ug/L	n/a †	1400 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Tetrachloroethene	<0.2 - 0.5 ug/L	280 ug/L	148 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Toluene	<0.2 - 0.7 ug/L	1000 ug/L	18500 ug/L	1.67 ug/L (J)	<0.2 ug/L	0.99 ug/L (J)	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	0.354 ug/L (J)	<0.2 ug/L
Total Organic Carbon	<550 - 3350 ug/L	n/a †	n/a †	31.8 mg/L	12 mg/L	44.5 mg/L	40.7 mg/L	31.4 mg/L	23.3 mg/L	34.2 mg/L	28.1 mg/L
Total TPH (C6-C9)	<107 - 1103 ug/L	n/a †	n/a †	<1.05 ug/L	<1.13 ug/L	<1.7 ug/L	<1.7 ug/L	<1.06 ug/L	<1.06 ug/L	<1.07 ug/L	<1.18 ug/L
trans-1,2-Dichloroethene	<0.2 - 0.6 ug/L	4000 ug/L	6950 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
trans-1,3-Dichloropropene	<0.2 - 0.3 ug/L	n/a †	250 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 ug/L	n/a †	n/a †	<0.5 ug/L	<0.5 ug/L						
Trichloroethene	<0.2 - 0.7 ug/L	71.9 ug/L	1010 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Trichlorofluoromethane	<0.2 - 0.2 ug/L	n/a †	49300 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Trichlorotrifluoroethane	<0.2 - 0.2 ug/L	n/a †	6040000 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Vinyl acetate	<0.2 - 0.2 ug/L	n/a †	748000 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Vinyl chloride	<0.2 - 0.1 ug/L	11.3 ug/L	16.5 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L
Xylene (total)	<0.4 - 0.1 ug/L	n/a †	24000 ug/L	1.48 ug/L (J)	1.68 ug/L (J)	<0.4 ug/L	0.409 ug/L (J)	<0.4 ug/L	<0.4 ug/L	0.6 ug/L (J)	<0.4 ug/L

Detection Color Code

- Detected
- Pending Validation
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

South 4 Group Fire

Surface Water Screening Values - December 2, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS006		WS010	WS011
				PNTX1202X006A Pending Validation	PNTX1202X006B Level 2 Verified	PNTX1202X010 Level 2 Verified	PNTX1202X011 Level 2 Verified
Hexachlorobenzene	< 0.5 - 0.526 µg/L	0.00046 µg/L	n/a †	< 0.5 µg/L	< 0.5 µg/L	13 µg/L	< 0.5 µg/L
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.5 µg/L
Hexachloroethane	< 0.5 - 0.526 µg/L	2.33 µg/L	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.098 µg/L	0.013 µg/L	n/a †	0.04 µg/L (J)	0.08 µg/L (J)	0.074 µg/L (J)	< 0.01 µg/L
Isophorone	< 0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.8 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L (R)	< 0.25 µg/L
m,p-Xylene	< 0.2 - 0.8 µg/L	n/a †	n/a †	< 0.2 µg/L	0.481 µg/L (J)	< 1 µg/L	< 0.2 µg/L
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 0.212 µg/L	13333 µg/L	3370 µg/L	0.755 µg/L (J)	< 0.2 µg/L	< 1 µg/L	< 0.5 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1200 µg/L	< 0.2 µg/L	< 0.2 µg/L	11 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.952 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.526 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Propylbenzene	< 0.5 - 0.5 µg/L	n/a †	2550 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 1 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.54 µg/L	10.5 µg/L (J)	49.4 µg/L (J)	< 0.2 µg/L
Nitrobenzene	< 0.5 - 0.526 µg/L	1672 µg/L	248 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.5 µg/L	< 0.5 µg/L	0.5 µg/L (R)	< 0.5 µg/L
o-Xylene	< 0.2 - 0.8 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a †	< 1.5 mg/L	2.5 mg/L (J)	5 mg/L (J)	2.5 mg/L (J)
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	< 0.5 µg/L	< 0.5 µg/L	0.5 µg/L (R)	< 0.5 µg/L
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	47.3 ng/L	114 ng/L	132 ng/L	11.4 ng/L
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	19.5 ng/L	50.5 ng/L	16.1 ng/L	< 1.5 ng/L
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	20 ng/L	452 ng/L (J)	485 ng/L	6.37 ng/L (J)
Phenanthrene	< 0.013 - 0.098 µg/L	n/a †	1070 µg/L	0.321 µg/L	0.387 µg/L (J)	1.6 µg/L (J)	< 0.013 µg/L
Phenol	< 0.5 - 0.558 µg/L	200000 µg/L	160000 µg/L	< 0.5 µg/L	< 0.5 µg/L	0.5 µg/L (R)	< 0.5 µg/L
Pyrene	< 0.026 - 0.087 µg/L	30 µg/L	n/a †	0.111 µg/L	0.167 µg/L (J)	0.865 µg/L (J)	< 0.026 µg/L
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	71.7 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.5 µg/L
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.5 µg/L
Styrene	< 0.2 - 0.8 µg/L	n/a †	29500 µg/L	< 0.2 µg/L	0.331 µg/L (J)	11.2 µg/L	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	< 0.2 µg/L	< 0.2 µg/L	20.3 µg/L	< 0.2 µg/L
tert-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	146 µg/L	< 0.2 µg/L	< 0.2 µg/L	11 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Total Organic Carbon	< 550 - 3350 µg/L	n/a †	n/a †	31.3 mg/L	15 mg/L	44.1 mg/L	3.22 mg/L
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	< 100 µg/L	< 101 µg/L	621 µg/L (J)	< 176 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	11 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.1 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.5 µg/L
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	600000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 1 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 0.1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	11 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 0.1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	0.481 µg/L (J)	< 1 µg/L	< 0.4 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL available

(R) QC Rejected for unreliable result

(J) Quantization is approximate

South 4 Group Fire  
Surface Water Screening Values - December 3, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS001			WS002			WS005		WS004	Detection Color Code
				PNTX1202V001B Pending Validation	PNTX1202K001A Pending Validation	PNTX1202B001B Pending Validation	PNTX1202N002A Pending Validation	PNTX1202X002B Pending Validation	PNTX1202X003A Pending Validation	PNTX1202X003B Pending Validation	PNTX1202X004A Pending Validation		
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	NA	0.085 µg/L (J)	0.058 µg/L (J)	0.141 µg/L	0.113 µg/L	<0.04 µg/L	0.188 µg/L	0.088 µg/L	Detected	
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36500 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	32.2 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	25.35 µg/L	33.9 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	NA	<0.526 µg/L	Detected Below RL							
1,2-Dichloroethane	<0.2 - <1 µg/L	354 µg/L	130 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	NA	<0.4 µg/L	Detected Below RL							
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	650 µg/L	NA	<0.526 µg/L	Detected Below RL							
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	NA	0.509 µg/L (J)	0.257 µg/L (J)	<0.2 µg/L	Detected Below RL					
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	NA	<0.526 µg/L	Detected Below RL							
1,3-Butadiene	<0.5 - <0.5 µg/L	n/a †	n/a †	NA	3.69 µg/L (J)	4 µg/L (J)	1.88 µg/L (J)	1.46 µg/L (J)	3.7 µg/L	2.9 µg/L	4.8 µg/L	Detected Below RL	
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9750 µg/L	NA	<0.526 µg/L	Detected Below RL							
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	NA	<0.2 µg/L	Detected Below RL							
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	190 µg/L	NA	<0.526 µg/L	Detected Below RL							
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	NA	3.88 µg/L (J)	4.14 µg/L (J)	<0.2 µg/L	<0.2 µg/L	2.4 µg/L (J)	4.22 µg/L (J)	3.95 µg/L (J)	Detected Below RL	
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	NA	<1 µg/L	1 µg/L (R)	<1 µg/L	1 µg/L (R)	1 µg/L	1 µg/L (R)	1 µg/L	Detected Below RL	
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5480 µg/L	NA	<0.526 µg/L	Detected Below RL							
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	NA	<0.526 µg/L	Detected Below RL							
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	NA	<0.2 µg/L	Detected Below RL							
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	NA	<0.5 µg/L	Detected Below RL							
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	NA	0.076 µg/L (J)	0.048 µg/L (J)	0.295 µg/L	0.043 µg/L (J)	<0.04 µg/L	0.158 µg/L	0.177 µg/L	Detected Below RL	
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	NA	<0.526 µg/L	Detected Below RL							
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	NA	<0.526 µg/L	Detected Below RL							
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	NA	<0.2 µg/L	Detected Below RL							
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	NA	<0.526 µg/L	Detected Below RL							
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	NA	<0.526 µg/L	Detected Below RL							
2,4-Dinitrophenol	<0.8 - <1.87 µg/L	300 µg/L	1270 µg/L	NA	<1 µg/L	<1.5 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	Detected Below RL	
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	NA	<0.526 µg/L	Detected Below RL							
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	NA	<0.526 µg/L	Detected Below RL							
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	28 µg/L	485 µg/L	NA	<0.526 µg/L	Detected Below RL							
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	NA	<0.526 µg/L	Detected Below RL							
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	NA	<0.526 µg/L	Detected Below RL							
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	NA	<0.526 µg/L	Detected Below RL							
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	NA	<0.526 µg/L	Detected Below RL							
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	NA	<0.526 µg/L	Detected Below RL							
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	NA	<0.526 µg/L	Detected Below RL							
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	NA	<0.526 µg/L	Detected Below RL							
4-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	2120 µg/L	NA	<0.2 µg/L	Detected Below RL							
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	NA	<0.2 µg/L	Detected Below RL							
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	NA	<0.2 µg/L	Detected Below RL							
4-Nitroaniline	<0.8 - 1.58 µg/L	n/a †	966 µg/L	NA	<1 µg/L	<1.5 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	Detected Below RL	
4-Nitrophenol	<0.8 - <1.87 µg/L	n/a †	1120 µg/L	NA	<1 µg/L	<1.5 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	Detected Below RL	
4,6-Dinitro-2-methylphenol	<0.8 - <1.87 µg/L	30 µg/L	30 µg/L	NA	<1 µg/L	<1.5 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	Detected Below RL	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS005 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEB Available

‡ No Contact Recreation PCL available

(R) QC Rejected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 3, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS004	WS006		WS010	WS014
				PNTX1203K004B Pending Validation	PNTX1203K008A Pending Validation	PNTX1203Y0065 Pending Validation	PNTX1203N010 Pending Validation	PNTX1203N014 Pending Validation
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.53 µg/L	<0.54 µg/L	<0.54 µg/L	0.096 µg/L (J)	<0.54 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	3600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	25.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	5259 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	254 µg/L	130 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.57 µg/L	<0.5 µg/L	<0.5 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	49 µg/L	1.23 µg/L	2.4 µg/L (J)	35.6 µg/L	<0.9 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	535 µg/L	9750 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	190 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	2.26 µg/L (J)	3.79 µg/L (J)	5.26 µg/L	9.4 µg/L	<0.2 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	<1 µg/L	1 µg/L (P)	1 µg/L (Q)	1 µg/L (Q)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.52 µg/L	<0.52 µg/L	<0.53 µg/L	0.112 µg/L (J)	<0.53 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	156 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,4-Dinitrophenol	<0.5 - <1.87 µg/L	300 µg/L	1270 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	455 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	15.8 µg/L	<0.2 µg/L
4-Nitroaniline	<0.8 - 1.58 µg/L	n/a †	966 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L
4-Nitrophenol	<0.8 - <1.67 µg/L	n/a †	1120 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L
4,6-Dinitro-2-methylphenol	<0.6 - <1.67 µg/L	30 µg/L	30 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS005 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL available  
(R) QC Rejected for unreliable result  
(J) Quantitative is approximate



South 4 Group Fire

Surface Water Screening Values - December 3, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS004	WS006		WS010	WS014
				PNTX1203K004B Pending Validation	PNTX1203K008A Pending Validation	PNTX1203Y006B Pending Validation	PNTX1203X010 Pending Validation	PNTX1203X014 Pending Validation
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	< 124 µg/L	< 127 µg/L	1,370 µg/L (J)	< 124 µg/L	< 127 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 124 µg/L	< 127 µg/L	< 124 µg/L	< 127 µg/L	< 127 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	0.085 µg/L (J)	0.030 µg/L	0.033 µg/L	0.030 µg/L (J)	< 0.030 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	n/a †	3260 µg/L	1.51 µg/L	0.497 µg/L	0.730 µg/L (J)	< 0.730 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	4.92 µg/L	42 µg/L	16 µg/L	14.8 µg/L	< 16 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.780 µg/L	n/a †	4630 µg/L	< 0.745 µg/L	< 0.745 µg/L	0.745 µg/L	0.745 µg/L	0.745 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1317 µg/L	10700 µg/L	0.051 µg/L (J)	0.030 µg/L	0.044 µg/L (J)	0.178 µg/L (J)	< 0.044 µg/L
Benzene	< 0.2 - < 0.7 µg/L	581 µg/L	235 µg/L	1.01 µg/L (J)	0.404 µg/L (J)	< 0.1 µg/L	0.909 µg/L (J)	< 0.1 µg/L
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L
Benzo(a)anthracene	< 0.025 - 0.077 µg/L	0.025 µg/L	n/a †	0.029 µg/L (J)	< 0.025 µg/L	0.03 µg/L (J)	0.092 µg/L (J)	< 0.025 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	0.002 µg/L	0.022 µg/L (J)	0.090 µg/L (J)	< 0.002 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	0.001 µg/L	0.025 µg/L (J)	0.080 µg/L (J)	< 0.013 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L	0.005 µg/L	0.025 µg/L (J)	0.096 µg/L (J)	< 0.013 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L	0.044 µg/L	< 0.026 µg/L	0.058 µg/L (J)	< 0.026 µg/L
Benzoic acid	< 0.5 - < 1.87 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 1.50 µg/L	< 1.50 µg/L	0.91 µg/L (J)	< 1.50 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.89 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	0.039 µg/L (J)	< 0.2 µg/L	0.019 µg/L (J)	2.47 µg/L (J)	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1080 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 107 µg/L	< 109 µg/L	< 109 µg/L	590 µg/L (J)	< 109 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2850 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	29.8 µg/L	< 0.2 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.025 - 0.061 µg/L	2.52 µg/L	n/a †	0.025 µg/L (J)	0.029 µg/L	< 0.025 µg/L	0.097 µg/L (J)	< 0.025 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4160 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0113 µg/L	n/a †	< 0.026 µg/L	0.04 µg/L (J)	< 0.026 µg/L	0.041 µg/L (J)	< 0.026 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12800 µg/L	0.454 µg/L (J)	< 0.2 µg/L	0.2 µg/L	0.2 µg/L	< 0.2 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Fluoranthene	< 0.013 - 0.102 µg/L	20 µg/L	n/a †	< 0.013 µg/L	< 0.013 µg/L	0.066 µg/L (J)	0.143 µg/L (J)	< 0.013 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.041 µg/L	< 0.041 µg/L	0.072 µg/L (J)	0.207 µg/L (J)	< 0.041 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water RBE Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 3, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS001			WS002			WS005		WS004
				PNTX1203V001B Pending Validation	PNTX1203K001A Pending Validation	PNTX1203Y001B Pending Validation	PNTX1203N002A Pending Validation	PNTX1203N002B Pending Validation	PNTX1203X003A Pending Validation	PNTX1203X003B Pending Validation	PNTX1203X004A Pending Validation	
Hexachlorobenzene	<0.5 - 0.526 µg/L	0.00046 µg/L	n/a †	NA	<0.501 µg/L	0.51 µg/L	<0.501 µg/L	<0.501 µg/L	<0.501 µg/L	<0.501 µg/L	<0.501 µg/L	<0.501 µg/L
Hexachlorobutadiene	<0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	NA	<0.501 µg/L	<0.501 µg/L						
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	255 µg/L	NA	<1.58 µg/L	<1.58 µg/L						
Hexachloroethane	<0.5 - 0.526 µg/L	0.233 µg/L	n/a †	NA	<0.501 µg/L	<0.501 µg/L						
Indeno(1,2,3-cd)pyrene	<0.013 - 0.098 µg/L	0.013 µg/L	n/a †	NA	<0.013 µg/L	0.023 µg/L (J)	0.063 µg/L (J)					
Isophorone	<0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	NA	<0.501 µg/L	<0.501 µg/L						
Isopropylbenzene (Cumene)	<0.2 - 0.2 µg/L	n/a †	8440 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
m,p-Cresol	<0.25 - 0.276 µg/L	n/a †	19500 µg/L	NA	<0.25 µg/L	0.26 µg/L	0.27 µg/L	0.28 µg/L	0.29 µg/L	0.30 µg/L	0.31 µg/L	0.32 µg/L
m,p-Xylene	<0.2 - 0.2 µg/L	n/a †	n/a †	NA	0.26 µg/L (J)	0.26 µg/L (J)						
Methyl iodide	<0.5 - 0.5 µg/L	n/a †	670 µg/L	NA	<0.5 µg/L	<0.5 µg/L						
Methylene chloride	<0.2 - 0.2 µg/L	13000 µg/L	3370 µg/L	NA	<0.2 µg/L	0.278 µg/L (J)						
n-Butylbenzene	<0.2 - 0.2 µg/L	n/a †	1200 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
n-Nitrosodi-n-propylamine	<0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	NA	<0.501 µg/L	<0.501 µg/L						
n-Nitrosodimethylamine	<0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	NA	<0.501 µg/L	<0.501 µg/L						
n-Nitrosodiphenylamine	<0.5 - 0.526 µg/L	60 µg/L	421 µg/L	NA	<0.501 µg/L	<0.501 µg/L						
n-Propylbenzene	<0.5 - 0.5 µg/L	n/a †	2950 µg/L	NA	<0.5 µg/L	<0.5 µg/L						
Naphthalene	<0.013 - 0.2 µg/L	n/a †	2550 µg/L	NA	<0.013 µg/L	0.065 µg/L (J)	0.302 µg/L	0.735 µg/L	0.735 µg/L	0.735 µg/L	0.735 µg/L	1.91 µg/L
Nitrobenzene	<0.5 - 0.526 µg/L	1673 µg/L	248 µg/L	NA	<0.501 µg/L	<0.501 µg/L						
o-Cresol	<0.5 - 0.5 µg/L	n/a †	19500 µg/L	NA	<0.501 µg/L	<0.501 µg/L						
o-Xylene	<0.2 - 0.2 µg/L	n/a †	227000 µg/L	NA	0.26 µg/L (J)	0.255 µg/L (J)						
Oil and Grease	<1500 - 0.1600 µg/L	n/a †	n/a †	NA	<1.5 mg/L	<1.5 mg/L	2.2 mg/L (J)	<1.5 mg/L	2.1 mg/L (J)	3.3 mg/L (J)	3.4 mg/L (J)	3.4 mg/L (J)
Pentachlorophenol	<0.5 - 0.5 µg/L	0.29 µg/L	9.32 µg/L	NA	<0.501 µg/L	<0.501 µg/L						
PFHxS	<1.37 - 1.64 mg/L	n/a †	n/a †	24.1 mg/L	31.1 mg/L	32.2 mg/L	33.3 mg/L	34.4 mg/L	35.5 mg/L	36.6 mg/L	37.7 mg/L	38.8 mg/L
PFOA	<1.5 - 1.85 mg/L	n/a †	n/a †	11.7 mg/L	15.9 mg/L	19.1 mg/L	23.3 mg/L	26.5 mg/L	29.7 mg/L	32.9 mg/L	36.1 mg/L	39.3 mg/L
PFOS	<1.42 - 6 mg/L	n/a †	n/a †	26.4 mg/L	33.9 mg/L	41.4 mg/L	48.9 mg/L	56.4 mg/L	63.9 mg/L	71.4 mg/L	78.9 mg/L	86.4 mg/L
Phenanthrene	<0.013 - 0.098 µg/L	n/a †	1070 µg/L	NA	<0.013 µg/L	0.133 µg/L	<0.013 µg/L	<0.013 µg/L	0.098 µg/L	0.098 µg/L	0.098 µg/L	0.098 µg/L
Phenol	<0.5 - 0.558 µg/L	200000 µg/L	160000 µg/L	NA	<0.501 µg/L	<0.501 µg/L						
Pyrene	<0.026 - 0.087 µg/L	30 µg/L	n/a †	NA	<0.026 µg/L	0.075 µg/L (J)	<0.026 µg/L	<0.026 µg/L	<0.026 µg/L	0.241 µg/L	0.216 µg/L	0.17 µg/L
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	NA	<1.56 µg/L	<1.56 µg/L						
sec-Butylbenzene	<0.2 - 0.2 µg/L	n/a †	1950 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
Styrene	<0.2 - 0.2 µg/L	n/a †	29500 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
tert-Butyl methyl ether (MTBE)	<0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	NA	<0.2 µg/L	7.72 µg/L	26.2 µg/L	44.7 µg/L	26 µg/L	33.7 µg/L	34.7 µg/L	36.7 µg/L
tert-Butylbenzene	<0.2 - 0.2 µg/L	n/a †	1400 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
Tetrachloroethene	<0.2 - 0.2 µg/L	280 µg/L	148 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
Toluene	<0.2 - 0.2 µg/L	1000 µg/L	16500 µg/L	NA	1.22 µg/L (J)	1.01 µg/L (J)	0.894 µg/L (J)	<0.2 µg/L	0.379 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Total Organic Carbon	<550 - 3350 µg/L	n/a †	n/a †	NA	11.3 mg/L	17.2 mg/L	25.1 mg/L	35.7 mg/L	39.7 mg/L	49.7 mg/L	54.7 mg/L	64.7 mg/L
Total TPH (C6-C9)	<107 - 0.103 µg/L	n/a †	n/a †	NA	<107 µg/L	<1.07 µg/L	<1.07 µg/L	<1.07 µg/L	<1.07 µg/L	<1.07 µg/L	201 µg/L (J)	<1.07 µg/L
trans-1,2-Dichloroethene	<0.2 - 0.2 µg/L	4000 µg/L	6950 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
trans-1,3-Dichloropropene	<0.2 - 0.2 µg/L	n/a †	250 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 µg/L	n/a †	n/a †	NA	<0.5 µg/L	<0.5 µg/L						
Trichloroethene	<0.2 - 0.2 µg/L	71.9 µg/L	1010 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
Trichlorofluoromethane	<0.2 - 0.2 µg/L	n/a †	43500 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
Trichlorotrifluoroethane	<0.2 - 0.2 µg/L	n/a †	600000 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
Vinyl acetate	<0.2 - 0.2 µg/L	n/a †	748000 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
Vinyl chloride	<0.2 - 0.2 µg/L	11.3 µg/L	35.5 µg/L	NA	<0.2 µg/L	<0.2 µg/L						
Xylene (total)	<0.4 - 0.1 µg/L	n/a †	24000 µg/L	NA	1.18 µg/L (J)	0.89 µg/L (J)	0.516 µg/L (J)	<0.4 µg/L	0.418 µg/L (J)	<0.4 µg/L	<0.4 µg/L	0.669 µg/L (J)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS000 and WS003  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water DISEL Available  
‡ No Contact Recreation PCL available  
(J) QC Rejected for unreliable result  
(J) Quantization is approximate

South 4 Group Fire

Surface Water Screening Values - December 3, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS004	WS006		WS010	WS014
				PNTX1203K004B Pending Validation	PNTX1203K008A Pending Validation	PNTX1203Y006B Pending Validation	PNTX1203N010 Pending Validation	PNTX1203N014 Pending Validation
Hexachlorobenzene	< 0.5 - 0.525 µg/L	0.00045 µg/L	n/a †	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - 0.525 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 1.5 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.58 µg/L
Hexachloroethane	< 0.5 - 0.525 µg/L	0.22 µg/L	n/a †	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.098 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	0.4 µg/L	0.024 µg/L (J)	0.089 µg/L (J)	< 0.013 µg/L
Isophorone	< 0.5 - 0.525 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.8 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	1.1 µg/L (J)	< 0.2 µg/L
m,p-Cresol	< 0.25 - 0.275 µg/L	n/a †	19500 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
m,p-Xylene	< 0.2 - 0.8 µg/L	n/a †	n/a †	0.651 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	1.4 µg/L (J)	< 0.2 µg/L
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 2.12 µg/L	13333 µg/L	3370 µg/L	< 0.2 µg/L	0.656 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.525 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.525 µg/L	50 µg/L	0.952 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.525 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	n/a †	< 0.5 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.675 µg/L	0.603 µg/L	0.101 µg/L	0.775 µg/L (J)	< 0.013 µg/L
Nitrobenzene	< 0.5 - 0.525 µg/L	1672 µg/L	248 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
o-Xylene	< 0.2 - 0.8 µg/L	n/a †	227000 µg/L	0.218 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - 14600 µg/L	n/a †	n/a †	2.4 mg/L (J)	< 1.4 mg/L	2 mg/L (J)	< 1.6 mg/L	< 1.6 mg/L
Pentachlorophenol	< 0.5 - 0.5 µg/L	0.29 µg/L	9.32 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	< 1.37 ng/L	77.2 ng/L	33.3 ng/L	31.1 ng/L	< 1.37 ng/L
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	15.1 ng/L	94 ng/L	98.3 ng/L	16.4 ng/L	< 1.5 ng/L
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	36.0 ng/L	187 ng/L	181 ng/L	392 ng/L	1.52 ng/L (J)
Phenanthrene	< 0.013 - 0.098 µg/L	n/a †	1070 µg/L	0.653 µg/L	2.25 µg/L	0.113 µg/L	1.02 µg/L (J)	< 0.013 µg/L
Phenol	< 0.5 - 0.555 µg/L	300000 µg/L	160000 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Pyrene	< 0.026 - 0.087 µg/L	30 µg/L	n/a †	0.066 µg/L	2.71 µg/L	0.074 µg/L (J)	0.625 µg/L (J)	< 0.026 µg/L
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	717 µg/L	< 0.5 µg/L	< 1.56 µg/L	< 1.56 µg/L	< 1.56 µg/L	< 1.56 µg/L
sec-Butylbenzene	< 0.2 - 0.8 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.8 µg/L	n/a †	29500 µg/L	0.663 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	646 µg/L	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.8 µg/L	n/a †	10462 µg/L	31 µg/L	35.1 µg/L	35.4 µg/L	263 mg/L	< 0.2 µg/L
tert-Butylbenzene	< 0.2 - 0.8 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.8 µg/L	280 µg/L	148 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	2.09 µg/L (J)	< 0.2 µg/L
Total Organic Carbon	< 500 - 3350 µg/L	n/a †	n/a †	36.7 mg/L	112.3 mg/L	45.1 mg/L	42.5 mg/L	11.77 mg/L
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	< 107 µg/L	< 107 µg/L	1.370 µg/L (J)	590 µg/L (J)	< 107 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.8 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.8 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - 0.8 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	6040000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 1 µg/L	16.5 µg/L	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	0.92 µg/L (J)	< 0.4 µg/L	< 0.4 µg/L	1.4 µg/L (J)	< 0.4 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

South 4 Group Fire  
Surface Water Screening Values - December 4, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS001		WS002		WS003		WS004		Detection Color Code ■ Detected ■ Detected Below RL ■ Not Detected ■ QA/QC Rejected
				PNTX1204X003A	PNTX1204X003B	PNTX1204Y002A	PNTX1204Y002B	PNTX1204X003A	PNTX1204X003B	PNTX1204X004A	PNTX1204X004B	
				Level 2 Verified								
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.04 µg/L	<0.04 µg/L	0.043 µg/L (J)	0.056 µg/L (J)	0.116 µg/L (J)	0.149 µg/L	<0.04 µg/L	0.039 µg/L	■
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,1-Dichloroethene	<0.2 - <1 µg/L	551.74 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	32.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	25.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,2-Dichloroethane	<0.2 - <1 µg/L	354 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,2-Dichloroethene(Total)	<0.2 - <0.4 µg/L	n/a †	n/a †	<0.2 µg/L	■							
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.55 µg/L (J)	■
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	9.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	1.49 µg/L (J)	2.75 µg/L (J)	1.8 µg/L (J)	2.26 µg/L (J)	10.7 µg/L	31.7 µg/L	5.94 µg/L (J)	20.8 µg/L	■
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	536 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	2.28 µg/L (J)	2.55 µg/L (J)	<0.2 µg/L	<0.2 µg/L	8.46 µg/L	4.17 µg/L (J)	8.55 µg/L	4.2 µg/L (J)	■
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	■							
2-Chloronaphthalene	<0.5 - 0.526 µg/L	5480 µg/L	1000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.04 µg/L	<0.04 µg/L	0.11 µg/L	0.072 µg/L (J)	<0.04 µg/L	0.231 µg/L	<0.04 µg/L	0.321 µg/L	■
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
2,4-Dinitrophenol	<0.8 - <1.67 µg/L	n/a †	360 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	■
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	■							
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	■
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	■							
4-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	2320 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	■
4-Nitroaniline	<0.8 - 1.58 µg/L	n/a †	966 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	■
4-Nitrophenol	<0.8 - <1.67 µg/L	n/a †	1120 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	■
4,6-Dinitro-2-methylphenol	<0.8 - <1.67 µg/L	30 µg/L	30 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	<1.1 µg/L	■

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS009 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
 † No Surface Water KIEB Available  
 ‡ No Contact Recreation PCL Available  
 (R) QC Rejected for unreliable result  
 (J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 4, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS006		WS015
				PNTX1204X006A	PNTX1204X006B	PNTX1204X015
				Level 2 Verified	Level 2 Verified	Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.041 µg/L	<0.15 µg/L	0.064 µg/L (J)
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48800 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3289 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.57 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.9 µg/L	<0.9 µg/L	<0.9 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	536 µg/L	9760 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.2 µg/L	932000 µg/L	491000 µg/L	6.77 µg/L	9.75 µg/L (J)	2.85 µg/L (J)
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	1 µg/L (P)	1 µg/L (P)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5480 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	0.515 µg/L (R)	<0.526 µg/L	0.605 µg/L (R)
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.041 µg/L	0.241 µg/L	0.067 µg/L (J)
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
2-Nitrophenol	<0.5 - <0.9 µg/L	n/a †	686 µg/L	0.515 µg/L (R)	<0.526 µg/L	0.505 µg/L (R)
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	0.515 µg/L (R)	<0.526 µg/L	0.505 µg/L (R)
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	0.515 µg/L (R)	<0.526 µg/L	0.505 µg/L (R)
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	300 µg/L	1270 µg/L	1.55 µg/L (P)	<1.181 µg/L	1.52 µg/L (P)
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	0.515 µg/L (R)	<0.526 µg/L	0.505 µg/L (R)
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	485 µg/L	0.515 µg/L (R)	<0.526 µg/L	0.605 µg/L (R)
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	0.515 µg/L (P)	<0.526 µg/L	0.505 µg/L (P)
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.526 µg/L	<0.526 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2320 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.58 µg/L	n/a †	966 µg/L	<0.55 µg/L	<1.181 µg/L	<1.181 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	1.55 µg/L (P)	<1.181 µg/L	1.52 µg/L (P)
4,6-Dinitro-2-methylphenol	<0.5 - <1.67 µg/L	30 µg/L	1100 µg/L	1.55 µg/L (R)	<1.181 µg/L	1.52 µg/L (R)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEB Available

‡ No Contact Recreation PCL available

(R) QC Rejected for unreliable result

(J) Quantitative is approximate



South 4 Group Fire

Surface Water Screening Values - December 4, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS006		WS015
				PNTX1204X006A	PNTX1204X006B	PNTX1204X015
				Level 2 Verified	Level 2 Verified	Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a ‡	< 23 µg/L	< 12 µg/L	< 12 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a ‡	< 23 µg/L	< 12 µg/L	< 12 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.019 µg/L	< 0.019 µg/L	< 0.019 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	< 0.041 µg/L	0.071 µg/L	0.231 µg/L (J)
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	25 µg/L	15.7 µg/L	9.2 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.785 µg/L	n/a †	4630 µg/L	< 0.773 µg/L	< 0.731 µg/L	< 0.731 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	131.7 µg/L	10700 µg/L	0.043 µg/L (J)	0.103 µg/L (J)	0.066 µg/L (J)
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	< 0.2 µg/L	0.696 µg/L (J)	1.05 µg/L (J)
Benzidine	< 1 - 2 µg/L	0.107 µg/L	0.156 µg/L	< 2 µg/L	< 2 µg/L	< 2 µg/L
Benzo(a)anthracene	< 0.025 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L	0.07 µg/L (J)	< 0.025 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	0.062 µg/L (J)	< 0.013 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	0.067 µg/L (J)	< 0.019 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L	0.06 µg/L (J)	0.05 µg/L (J)
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L	0.029 µg/L (J)	< 0.026 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	1.55 µg/L (R)	< 1.56 µg/L	1.52 µg/L (R)
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	1.64 µg/L (J)	1.08 µg/L (J)	< 0.526 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.55 µg/L	n/a †	< 0.25 µg/L	< 0.263 µg/L	< 0.263 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	0.882 µg/L (J)	0.67 µg/L (J)	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1080 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 2 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.263 µg/L	< 0.263 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 109 µg/L	< 109 µg/L	< 109 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L	< 0.6 µg/L	< 0.6 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	14.5 µg/L	13 µg/L	2.05 µg/L (J)
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.025 - 0.061 µg/L	2.52 µg/L	n/a †	< 0.025 µg/L	0.056 µg/L (J)	0.029 µg/L (J)
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.263 µg/L	< 0.263 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0113 µg/L	n/a †	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	153 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.526 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.853 µg/L (J)
Ethylene Glycol	< 265 - 7318 µg/L	1680000 µg/L	1840000 µg/L	< 0.526 µg/L	0.449 µg/L (J)	< 0.526 µg/L
Fluoranthene	< 0.013 - 0.102 µg/L	20 µg/L	n/a †	0.086 µg/L (J)	0.057 µg/L	0.109 µg/L (J)
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.041 µg/L	0.088 µg/L (J)	0.118 µg/L (J)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(R) QC rejected for unreliable result

(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 4, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS001		WS002		WS003		WS004	
				PNTX1204X003A	PNTX1204X003B	PNTX1204Y002A	PNTX1204Y002B	PNTX1204X003A	PNTX1204X003B	PNTX1204X004A	PNTX1204X004B
				Level 2 Verified							
Hexachlorobenzene	< 0.5 - 0.526 µg/L	0.00046 µg/L	n/a †	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.504 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.506 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	256 µg/L	< 1.6 µg/L	< 1.6 µg/L	< 1.6 µg/L	< 1.6 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.50 µg/L	< 1.51 µg/L
Hexachloroethane	< 0.5 - 0.526 µg/L	0.233 µg/L	n/a †	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.048 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	0.065 µg/L (J)	< 0.01 µg/L	< 0.01 µg/L	0.086 µg/L (J)	0.04 µg/L (J)	< 0.02 µg/L	0.188 µg/L
Isophorone	< 0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.506 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.6 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	< 0.253 µg/L	< 0.253 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.253 µg/L	< 0.25 µg/L	< 0.24 µg/L	< 0.25 µg/L
m,p-Xylene	< 0.2 - 0.2 µg/L	n/a †	n/a †	0.557 µg/L (J)	0.459 µg/L (J)	< 0.2 µg/L	0.346 µg/L (J)	0.46 µg/L (J)	0.282 µg/L (J)	< 0.2 µg/L	0.676 µg/L (J)
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 2.12 µg/L	13033 µg/L	3370 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	9.1 µg/L	1.98 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.506 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.506 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.526 µg/L	60 µg/L	421 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.506 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2950 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.03 µg/L (J)	0.058 µg/L (J)	0.001 µg/L	0.700 µg/L	0.382 µg/L (J)	0.455 µg/L	0.197 µg/L	0.495 µg/L
Nitrobenzene	< 0.5 - 0.526 µg/L	1673 µg/L	248 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.506 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.506 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
o-Xylene	< 0.2 - 0.2 µg/L	n/a †	227000 µg/L	0.205 µg/L (J)	0.251 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	2.39 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a †	1.7 mg/L (J)	< 1.6 mg/L	2.6 mg/L (J)	< 1.6 mg/L	4.7 mg/L (J)	2.2 mg/L (J)	? mg/L	2.7 mg/L (J)
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.506 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
PFHxS	< 1.37 - 1.64 mg/L	n/a †	33.3 mg/L	< 1.37 mg/L	< 1.37 mg/L	< 1.37 mg/L	< 1.37 mg/L	< 1.37 mg/L	< 1.37 mg/L	< 1.37 mg/L	< 1.37 mg/L
PFOA	< 1.5 - 1.85 mg/L	n/a †	n/a †	6.28 mg/L (J)	17.9 mg/L	14 mg/L	28.2 mg/L	22.9 mg/L	32.8 mg/L	21.5 mg/L	31.6 mg/L
PFOS	< 1.42 - 6 mg/L	n/a †	n/a †	117 mg/L (J)	348 mg/L	301 mg/L	339 mg/L	194 mg/L	282 mg/L	139 mg/L	163 mg/L
Phenanthrene	< 0.013 - 0.048 µg/L	n/a †	1070 µg/L	0.059 µg/L (J)	0.075 µg/L (J)	0.027 µg/L (J)	0.027 µg/L (J)	0.096 µg/L (J)	0.093 µg/L	0.031 µg/L	0.039 µg/L
Phenol	< 0.5 - 0.558 µg/L	300000 µg/L	160000 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.506 µg/L	< 0.51 µg/L	< 0.501 µg/L	< 0.51 µg/L
Pyrene	< 0.026 - 0.037 µg/L	30 µg/L	n/a †	0.031 µg/L (J)	0.047 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L	0.209 µg/L (J)	0.246 µg/L	0.058 µg/L (J)	0.21 µg/L
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	717 µg/L	< 1.6 µg/L	< 1.6 µg/L	< 1.6 µg/L	< 1.6 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.50 µg/L	< 1.51 µg/L
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.8 µg/L	n/a †	29600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	2.31 µg/L (J)	0.411 µg/L (J)	< 0.2 µg/L	0.269 µg/L (J)
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	4.62 µg/L (J)	4.8 µg/L	10.8 µg/L	10.8 µg/L	23.4 mg/L	21.7 mg/L	27.2 mg/L	23.6 mg/L
tert-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	148 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	0.689 µg/L (J)	0.652 µg/L (J)	1.08 µg/L (J)	< 0.2 µg/L	0.539 µg/L (J)	0.592 µg/L (J)	< 0.2 µg/L	0.807 µg/L (J)
Total Organic Carbon	< 500 - 3350 µg/L	n/a †	n/a †	39.3 mg/L	11.8 mg/L	37 mg/L	29.8 mg/L	35.3 mg/L	34 mg/L	35.7 mg/L	34.5 mg/L
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	< 1.03 µg/L	906 µg/L (J)	< 1.03 µg/L	< 1.03 µg/L	1,060 µg/L (J)	979 µg/L (J)	< 1.03 µg/L	943 µg/L (J)
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.3 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L							
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.947 µg/L (J)	< 0.2 µg/L	0.965 µg/L (J)	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	49300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	6040000 µg/L	< 0.2 µg/L							
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 0.1 µg/L	11.3 µg/L	16.5 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	0.742 µg/L (J)	0.59 µg/L (J)	< 0.4 µg/L	< 0.4 µg/L	2.68 µg/L (J)	< 0.4 µg/L	< 0.4 µg/L	0.676 µg/L (J)

Detection Color Code

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS000 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water Data Available  
‡ No Contact Recreation PCL available  
(J) QC Rejected for unreliable result  
(J) Quantization is approximate

South 4 Group Fire

Surface Water Screening Values - December 4, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS006		WS015
				PNTX1204X006A	PNTX1204X006B	PNTX1204X015
				Level 2 Verified	Level 2 Verified	Level 2 Verified
Hexachlorobenzene	< 0.5 - 0.526 µg/L	0.00046 µg/L	n/a †	< 0.5 µg/L	< 0.501 µg/L	< 0.511 µg/L
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.511 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 1.5 µg/L	< 1.501 µg/L	< 1.511 µg/L
Hexachloroethane	< 0.5 - 0.526 µg/L	2.33 µg/L	n/a †	< 0.5 µg/L	< 0.501 µg/L	< 0.511 µg/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.048 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	0.054 µg/L (J)	0.023 µg/L (J)
Isophorone	< 0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.511 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.8 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	0.146 µg/L (K)	< 0.25 µg/L	0.288 µg/L (K)
m,p-Xylene	< 0.2 - 0.8 µg/L	n/a †	n/a †	< 0.2 µg/L	0.547 µg/L (J)	0.423 µg/L (J)
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 0.212 µg/L	13333 µg/L	3370 µg/L	< 0.2 µg/L	< 0.212 µg/L	< 0.212 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.511 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.942 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.511 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.526 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.511 µg/L
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2550 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.141 µg/L (J)	0.24 µg/L	0.266 µg/L (J)
Nitrobenzene	< 0.5 - 0.526 µg/L	1672 µg/L	248 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.511 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	0.118 µg/L (K)	< 0.501 µg/L	0.538 µg/L (K)
o-Xylene	< 0.2 - 0.8 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - 1400 µg/L	n/a †	n/a †	4.7 mg/L (J)	4 mg/L (J)	2 mg/L (J)
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	0.535 µg/L (P)	< 0.501 µg/L	0.505 µg/L (P)
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	32 ng/L	30 ng/L	33 ng/L
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	1.0 ng/L	50 ng/L	1.51 ng/L (J)
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	6.5 ng/L	242 ng/L	18.8 ng/L
Phenanthrene	< 0.013 - 0.048 µg/L	n/a †	1070 µg/L	0.142 µg/L (J)	0.393 µg/L	0.393 µg/L (J)
Phenol	< 0.5 - 0.558 µg/L	200000 µg/L	160000 µg/L	0.115 µg/L (K)	< 0.501 µg/L	0.505 µg/L (K)
Pyrene	< 0.026 - 0.037 µg/L	30 µg/L	n/a †	0.074 µg/L (J)	0.257 µg/L	0.126 µg/L (J)
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	717 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L
sec-Butylbenzene	< 0.2 - 0.8 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.8 µg/L	n/a †	29600 µg/L	< 0.2 µg/L	0.26 µg/L (J)	2.28 µg/L (J)
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.8 µg/L	10462 µg/L	5470 µg/L	< 0.2 µg/L	26.1 µg/L	10.8 µg/L
tert-Butylbenzene	< 0.2 - 0.8 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	146 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Total Organic Carbon	< 500 - 3350 µg/L	n/a †	n/a †	15.6 mg/L	11.2 mg/L	13.2 mg/L
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	< 105 µg/L	< 105 µg/L	< 115 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.3 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	0.744 µg/L (J)	< 0.2 µg/L	0.705 µg/L (J)
Trichlorofluoromethane	< 0.2 - 0.8 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	604000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 1 µg/L	16.5 µg/L	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	0.423 µg/L (J)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

South 4 Group Fire  
Surface Water Screening Values - December 5, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS001		WS002		WS003		WS004		Detection Color Code
				PNTX1205X001A	PNTX1205X001B	PNTX1205X002A	PNTX1205X002B	PNTX1205X003A	PNTX1205X003B	PNTX1205X004A	PNTX1205X004B	
				Level 2 Verified								
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.058 µg/L (J)	0.054 µg/L (J)	<0.041 µg/L	0.148 µg/L	<0.045 µg/L	0.104 µg/L	<0.041 µg/L	<0.041 µg/L	Detected Below RL
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48800 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	31.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3289 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	Detected Below RL							
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.351 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	9.57 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L	<0.526 µg/L	1.65 µg/L (J)	<0.51 µg/L	27.8 µg/L	389 µg/L	86 µg/L	6.85 µg/L	Detected Below RL
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	526 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	9.08 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	2.91 µg/L (J)	2.51 µg/L (J)	2.77 µg/L (J)	Detected Below RL
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)	<1 µg/L	1 µg/L (R)	<1 µg/L	1 µg/L (R)	1 µg/L	1 µg/L (R)	1 µg/L (R)	Detected Below RL
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected Below RL
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.041 µg/L	0.056 µg/L (J)	<0.041 µg/L	0.055 µg/L (J)	<0.045 µg/L	0.054 µg/L	<0.041 µg/L	<0.041 µg/L	Detected Below RL
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
2,4-Dinitrophenol	<0.5 - <1.87 µg/L	360 µg/L	1270 µg/L	<1.51 µg/L	<1.87 µg/L	Detected Below RL						
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.526 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	Detected Below RL
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
4-Nitroaniline	<0.8 - 1.518 µg/L	n/a †	966 µg/L	<1.51 µg/L	<1.518 µg/L	<1.51 µg/L	<1.51 µg/L	<1.51 µg/L	<1.51 µg/L	<1.51 µg/L	<1.51 µg/L	Detected Below RL
4-Nitrophenol	<0.5 - <1.87 µg/L	n/a †	1120 µg/L	<1.51 µg/L	<1.87 µg/L	<1.51 µg/L	Detected Below RL					
4,6-Dinitro-2-methylphenol	<0.6 - <1.87 µg/L	30 µg/L	30 µg/L	<1.87 µg/L	<1.87 µg/L	<1.51 µg/L	Detected Below RL					

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS000 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEB Available  
‡ No Contact Recreation PCL available  
(R) QC Detected for unreliable result  
(J) Quantitative is approximate

South 4 Group Fire  
Surface Water Screening Values - December 5, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS004	WS906		WS010	WS014		WS017
				PNTX1205X004B Level 2 Verified	PNTX1205X008A Level 2 Verified	PNTX1205X006B Level 2 Verified	PNTX1205X010 Level 2 Verified	PNTX1205X014A Level 2 Verified	PNTX1205X014B Level 2 Verified	PNTX1205X017B Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.15 µg/L	<0.04 µg/L	<0.15 µg/L	0.041 µg/L (J)	<0.041 µg/L	<0.04 µg/L	0.07 µg/L (J)
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	25.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	354 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	650 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	89.1 µg/L	73.8 µg/L	119 µg/L	<0.5 µg/L	<0.5 µg/L	0.659 µg/L (J)	<0.5 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	2.38 µg/L (J)	<0.2 µg/L	2.18 µg/L (J)	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	2.18 µg/L (J)
2-Chloroethylvinyl ether	1.1 µg/L	n/a †	16.2 µg/L	<1 µg/L	1 µg/L (R)	<1 µg/L	2 µg/L (R)	1 µg/L (R)	1 µg/L	1 µg/L
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<1 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	0.189 µg/L	0.088 µg/L (J)	0.153 µg/L	0.046 µg/L (J)	<0.045 µg/L	<0.04 µg/L	<0.04 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrophenol	<0.8 - <1.87 µg/L	300 µg/L	1270 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	820 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	19.8 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Nitroaniline	<0.8 - 1.58 µg/L	n/a †	966 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
4-Nitrophenol	<0.8 - <1.87 µg/L	n/a †	1120 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	1.5 µg/L (R)	<1 µg/L	<1 µg/L	<1 µg/L
4,6-Dinitro-2-methylphenol	<0.8 - <1.87 µg/L	30 µg/L	30 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS009 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL available  
(R) QC Rejected for unreliable result  
(J) Quantitative is approximate





South 4 Group Fire

Surface Water Screening Values - December 5, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS001		WS002		WS003		WS004	
				PNTX1205X001A	PNTX1205X001B	PNTX1205X002A	PNTX1205X002B	PNTX1205X003A	PNTX1205X003B	PNTX1205X004A	PNTX1205X004B
				Level 2 Verified							
Hexachlorobenzene	<0.5 - 0.525 µg/L	0.00045 µg/L	n/a †	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
Hexachlorobutadiene	<0.3 - 0.525 µg/L	0.22 µg/L	6.9 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	255 µg/L	<1.5 µg/L	<1.50 µg/L	<1.51 µg/L					
Hexachloroethane	<0.5 - 0.525 µg/L	0.22 µg/L	n/a †	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
Indeno(1,2,3-cd)pyrene	<0.013 - 0.048 µg/L	0.013 µg/L	n/a †	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	0.059 µg/L (J)	0.051 µg/L (J)	0.02 µg/L (J)	0.026 µg/L (J)
Isophorone	<0.5 - 0.525 µg/L	16000 µg/L	10400 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
Isopropylbenzene (Cumene)	<0.2 - 0.8 µg/L	n/a †	8440 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
m,p-Cresol	<0.25 - 0.276 µg/L	n/a †	19500 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L
m,p-Xylene	<0.2 - 0.2 µg/L	n/a †	n/a †	0.52 µg/L (J)	<0.2 µg/L	0.343 µg/L (J)	<0.2 µg/L	1.2 µg/L (J)	0.824 µg/L (J)	0.218 µg/L (J)	0.291 µg/L (J)
Methyl iodide	<0.5 - 0.5 µg/L	n/a †	670 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Methylene chloride	<0.2 - 0.2 µg/L	13000 µg/L	3370 µg/L	<0.2 µg/L	0.61 µg/L (J)	<0.2 µg/L	1 µg/L (J)	<0.2 µg/L	0.463 µg/L (J)	<0.2 µg/L	<0.2 µg/L
n-Butylbenzene	<0.2 - 0.2 µg/L	n/a †	1600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Nitrosodi-n-propylamine	<0.5 - 0.525 µg/L	5.1 µg/L	1.98 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
n-Nitrosodimethylamine	<0.5 - 0.525 µg/L	50 µg/L	0.952 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
n-Nitrosodiphenylamine	<0.5 - 0.525 µg/L	60 µg/L	421 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
n-Propylbenzene	<0.5 - 0.5 µg/L	n/a †	2950 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Naphthalene	<0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.072 µg/L (J)	0.077 µg/L (J)	0.404 µg/L	0.422 µg/L	<0.013 µg/L	1.3 µg/L	0.251 µg/L	0.251 µg/L
Nitrobenzene	<0.5 - 0.525 µg/L	1672 µg/L	248 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
o-Cresol	<0.5 - 0.5 µg/L	n/a †	19500 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
o-Xylene	<0.2 - 0.2 µg/L	n/a †	227000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.447 µg/L (J)	0.401 µg/L (J)	<0.2 µg/L	<0.2 µg/L
Oil and Grease	<1500 - 0.1600 µg/L	n/a †	n/a †	<1.6 mg/L	<1.6 mg/L	2.1 mg/L (J)	2.3 mg/L (J)	1.9 mg/L (J)	<1.5 mg/L	2.6 mg/L (J)	1.7 mg/L (J)
Pentachlorophenol	<0.5 - 0.5 µg/L	0.29 µg/L	9.32 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
PFHxS	<1.37 - 1.64 mg/L	n/a †	n/a †	39.3 mg/L	38 mg/L	128 mg/L	72.1 mg/L	270 mg/L	222 mg/L	NA	27.4 mg/L
PFOA	<1.5 - 1.85 mg/L	n/a †	n/a †	1.5 mg/L	15.7 mg/L	14.3 mg/L	24 mg/L	8.28 mg/L (J)	4.1 mg/L	NA	12.8 mg/L
PFOS	<1.42 - 6 mg/L	n/a †	n/a †	10 mg/L	133 mg/L	107 mg/L	297 mg/L	133 mg/L	537 mg/L	NA	97.8 mg/L (J)
Phenanthrene	<0.013 - 0.048 µg/L	n/a †	1070 µg/L	0.151 µg/L (J)	0.151 µg/L (J)	<0.013 µg/L	<0.013 µg/L	0.042 µg/L (J)	0.09 µg/L	0.096 µg/L	0.047 µg/L
Phenol	<0.5 - 0.558 µg/L	200000 µg/L	160000 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
Pyrene	<0.026 - 0.037 µg/L	30 µg/L	n/a †	0.062 µg/L (J)	0.062 µg/L (J)	<0.026 µg/L	<0.026 µg/L	0.049 µg/L (J)	0.15 µg/L	0.130 µg/L	0.251 µg/L
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L
sec-Butylbenzene	<0.2 - 0.5 µg/L	n/a †	1950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Styrene	<0.2 - 0.8 µg/L	n/a †	29600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.849 µg/L (J)	1.43 µg/L (J)	<0.2 µg/L	0.34 µg/L (J)
tert-Butyl methyl ether (MTBE)	<0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
tert-Butylbenzene	<0.2 - 0.5 µg/L	n/a †	1400 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Tetrachloroethene	<0.2 - 0.5 µg/L	280 µg/L	148 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Toluene	<0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	<0.2 µg/L	<0.2 µg/L	0.401 µg/L (J)	<0.2 µg/L	1.31 µg/L (J)	<0.2 µg/L	0.254 µg/L (J)	0.231 µg/L (J)
Total Organic Carbon	<550 - 3350 µg/L	n/a †	n/a †	3.4 mg/L	11.8 mg/L	27.3 mg/L	32 mg/L	29.4 mg/L	31.1 mg/L	24.5 mg/L	21.3 mg/L
Total TPH (C6-C9)	<107 - 0.103 µg/L	n/a †	n/a †	<1.07 µg/L							
trans-1,2-Dichloroethene	<0.2 - 0.5 µg/L	4000 µg/L	6950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,3-Dichloropropene	<0.2 - 0.1 µg/L	n/a †	250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 µg/L	n/a †	n/a †	<0.5 µg/L							
Trichloroethene	<0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorofluoromethane	<0.2 - 0.2 µg/L	n/a †	43500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorotrifluoroethane	<0.2 - 0.2 µg/L	n/a †	600000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl acetate	<0.2 - 0.2 µg/L	n/a †	748000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl chloride	<0.2 - 0.1 µg/L	11.3 µg/L	16.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Xylene (total)	<0.4 - 0.1 µg/L	n/a †	24000 µg/L	0.52 µg/L (J)	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	1.65 µg/L (J)	1.23 µg/L (J)	<0.4 µg/L	0.548 µg/L (J)

Detection Color Code

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS000 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water DISEL Available  
‡ No Contact Recreation PCL available  
(J) QC Rejected for unreliable result  
(J) Quantization is approximate

South 4 Group Fire  
Surface Water Screening Values - December 5, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS004	WS006		WS010	WS014		WS017
				PNTX1205X004B Level 2 Verified	PNTX1205X000A Level 2 Verified	PNTX1205X006B Level 2 Verified	PNTX1205X010 Level 2 Verified	PNTX1205X014A Level 2 Verified	PNTX1205X014B Level 2 Verified	PNTX1205X017B Level 2 Verified
Hexachlorobenzene	<0.5 - 0.526 µg/L	0.70046 µg/L	n/a †	<0.521 µg/L	<0.5 µg/L	13 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Hexachlorobutadiene	<0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	<0.521 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	255 µg/L	<1.58 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L
Hexachloroethane	<0.5 - 0.526 µg/L	2.33 µg/L	n/a †	<0.521 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Indeno(1,2,3-cd)pyrene	<0.013 - 0.048 µg/L	0.013 µg/L	n/a †	0.244 µg/L	0.013 µg/L (J)	0.011 µg/L	<0.011 µg/L	<0.011 µg/L	<0.011 µg/L	<0.011 µg/L
Isophorone	<0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	<0.521 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Isopropylbenzene (Cumene)	<0.2 - 0.8 µg/L	n/a †	n/a †	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L
m,p-Cresol	<0.26 - 0.276 µg/L	n/a †	19500 µg/L	<0.26 µg/L	<0.26 µg/L	10.26 µg/L	10.26 µg/L	10.26 µg/L	10.26 µg/L	10.26 µg/L
m,p-Xylene	<0.2 - 0.8 µg/L	n/a †	n/a †	1.88 µg/L (J)	0.550 µg/L (J)	0.615 µg/L (J)	<0.4 µg/L	0.209 µg/L (J)	<0.2 µg/L	<0.2 µg/L
Methyl iodide	<0.5 - 0.5 µg/L	n/a †	670 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Methylene chloride	<0.2 - 0.212 µg/L	13333 µg/L	3370 µg/L	1.35 µg/L (J)	<0.212 µg/L	0.637 µg/L (J)	<1.35 µg/L	<0.520 µg/L	0.556 µg/L (J)	0.748 µg/L (J)
n-Butylbenzene	<0.2 - 0.7 µg/L	n/a †	1600 µg/L	<0.2 µg/L	<0.2 µg/L	13 µg/L	13 µg/L	13 µg/L	<0.2 µg/L	<0.2 µg/L
n-Nitrosodi-n-propylamine	<0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	<0.521 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
n-Nitrosodimethylamine	<0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	<0.521 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
n-Nitrosodiphenylamine	<0.5 - 0.526 µg/L	60 µg/L	421 µg/L	<0.521 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
n-Propylbenzene	<0.5 - 0.1 µg/L	n/a †	2950 µg/L	<0.1 µg/L	<0.1 µg/L	<0.1 µg/L	<0.1 µg/L	<0.1 µg/L	<0.1 µg/L	<0.1 µg/L
Naphthalene	<0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.504 µg/L	0.504 µg/L	0.705 µg/L	0.272 µg/L (J)	<0.013 µg/L	<0.013 µg/L	0.191 µg/L
Nitrobenzene	<0.5 - 0.526 µg/L	1673 µg/L	248 µg/L	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
o-Cresol	<0.5 - 0.5 µg/L	n/a †	19500 µg/L	<0.521 µg/L	<0.5 µg/L	13 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
o-Xylene	<0.2 - 0.8 µg/L	n/a †	227000 µg/L	0.407 µg/L (J)	<0.2 µg/L	0.275 µg/L (J)	<0.4 µg/L	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L
Oil and Grease	<1500 - 0.1600 µg/L	n/a †	n/a †	1.7 mg/L (J)	<1.6 mg/L	<1.6 mg/L	7 mar.	<1.6 mg/L	<1.6 mg/L	11.5 mg/L
Pentachlorophenol	<0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L
PFHxS	<1.37 - 1.64 ng/L	n/a †	n/a †	13.5 ng/L	37.4 ng/L	133 ng/L	20.5 ng/L	<1.37 ng/L	<1.37 ng/L	13.9 ng/L
PFOA	<1.5 - 1.85 ng/L	n/a †	n/a †	11.4 ng/L	6.18 ng/L (J)	16.4 ng/L	2.69 ng/L (J)	<1.5 ng/L	<1.5 ng/L	41.9 ng/L
PFOS	<1.42 - 6 ng/L	n/a †	n/a †	9.9 ng/L	371 ng/L	3,385 ng/L	33.9 ng/L	1.78 ng/L (J)	2.64 ng/L (J)	144 ng/L
Phenanthrene	<0.013 - 0.048 µg/L	n/a †	1070 µg/L	0.67 µg/L	0.153 µg/L	0.877 µg/L	0.529 µg/L (J)	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L
Phenol	<0.5 - 0.558 µg/L	300000 µg/L	160000 µg/L	<0.521 µg/L	<0.5 µg/L	<0.5 µg/L	0.5 µg/L (P)	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Pyrene	<0.026 - 0.037 µg/L	30 µg/L	n/a †	0.527 µg/L	0.297 µg/L	0.358 µg/L	0.278 µg/L (J)	<0.026 µg/L	<0.026 µg/L	<0.026 µg/L
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	<1.56 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L
sec-Butylbenzene	<0.2 - 0.8 µg/L	n/a †	1950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Styrene	<0.2 - 0.8 µg/L	n/a †	29600 µg/L	0.353 µg/L (J)	0.697 µg/L (J)	1.44 µg/L (J)	154 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
tert-Butyl methyl ether (MTBE)	<0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	1.57 µg/L	11.7 µg/L	39.8 µg/L	4.34 µg/L (J)	<0.2 µg/L	<0.2 µg/L	13.9 µg/L
tert-Butylbenzene	<0.2 - 0.8 µg/L	n/a †	1400 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Tetrachloroethene	<0.2 - 0.6 µg/L	280 µg/L	148 µg/L	<0.2 µg/L	<0.2 µg/L	13 µg/L	13 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Toluene	<0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	0.395 µg/L (J)	<0.2 µg/L	0.46 µg/L (J)	0.959 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Total Organic Carbon	<550 - 3350 µg/L	n/a †	n/a †	35.5 mg/L	11.8 mg/L	33.8 mg/L	25.3 mg/L	8.53 mg/L	3.22 mg/L	34.5 mg/L
Total TPH (C6-C9)	<107 - 0.103 µg/L	n/a †	n/a †	271 µg/L (J)	<104 µg/L	<177 µg/L	1,750 µg/L (J)	<104 µg/L	<104 µg/L	<104 µg/L
trans-1,2-Dichloroethene	<0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	<0.2 µg/L	<0.2 µg/L	13 µg/L	13 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,3-Dichloropropene	<0.2 - 0.1 µg/L	n/a †	250 µg/L	<0.1 µg/L	<0.1 µg/L	<0.1 µg/L	<0.1 µg/L	<0.1 µg/L	<0.1 µg/L	<0.1 µg/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Trichloroethene	<0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorofluoromethane	<0.2 - 0.2 µg/L	n/a †	43500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorotrifluoroethane	<0.2 - 0.2 µg/L	n/a †	600000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl acetate	<0.2 - 0.2 µg/L	n/a †	748000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl chloride	<0.2 - 0.1 µg/L	11.3 µg/L	16.5 µg/L	<0.2 µg/L	<0.2 µg/L	10.2 µg/L	10.4 µg/L	10.2 µg/L	<0.2 µg/L	<0.2 µg/L
Xylene (total)	<0.4 - 0.1 µg/L	n/a †	24000 µg/L	1.49 µg/L (J)	<0.4 µg/L	0.591 µg/L (J)	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS006 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water DSEL Available  
‡ No Contact Recreation PCL available  
(P) QC Rejected for unreliable result  
(J) Quantitation is approximate

South 4 Group Fire  
Surface Water Screening Values - December 6, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS001		WS002		WS003		WS004	
				PNTX1206X003A	PNTX1206X003B	PNTX1206X002A	PNTX1206X002B	PNTX1206X003A	PNTX1206X003B	PNTX1206X004A	PNTX1206X004B
				Level 2 Verified	Pending Validation						
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.399 µg/L (J)	3.39 µg/L	<0.041 µg/L	<0.11 µg/L	<0.045 µg/L	<0.045 µg/L	<0.045 µg/L	0.050 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.74 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L						
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	32.2 µg/L	<0.2 µg/L	<0.2 µg/L						
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L						
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L						
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	<0.4 µg/L						
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L						
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	6076 µg/L	656 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	0.451 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.339 µg/L (J)
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	9.57 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L	1.62 µg/L (J)	1.36 µg/L (J)	1.21 µg/L (J)	1.64 µg/L (J)	0.919 µg/L (J)	3.38 µg/L (J)	2.01 µg/L (J)
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	526 µg/L	9750 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L						
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	2.35 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	2.57 µg/L (J)	<0.2 µg/L	2.1 µg/L (J)
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	18.2 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L						
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.042 µg/L	8.5 µg/L	<0.042 µg/L	0.067 µg/L (J)	<0.045 µg/L	0.069 µg/L	<0.045 µg/L	0.148 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
2,4-Dinitrophenol	<0.8 - <1.87 µg/L	360 µg/L	1270 µg/L	<1.7 µg/L	<1.86 µg/L	<1.86 µg/L	<1.86 µg/L	<1.86 µg/L	<1.86 µg/L	<1.86 µg/L	<1.86 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	1400 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	28 µg/L	485 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.526 µg/L	<0.526 µg/L						
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.526 µg/L	<0.526 µg/L						
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2320 µg/L	<0.2 µg/L	<0.2 µg/L						
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L						
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	1.46 µg/L (J)	1.69 µg/L (J)	3.54 µg/L (J)	3.52 µg/L (J)
4-Nitroaniline	<0.8 - 1.518 µg/L	n/a †	966 µg/L	<1.7 µg/L	<1.91 µg/L	<1.91 µg/L	<1.91 µg/L	<1.7 µg/L	<1.66 µg/L	<1.5 µg/L	<1.55 µg/L
4-Nitrophenol	<0.8 - <1.87 µg/L	n/a †	1120 µg/L	<1.7 µg/L	<1.86 µg/L	<1.86 µg/L	<1.86 µg/L	<1.7 µg/L	<1.66 µg/L	<1.5 µg/L	<1.55 µg/L
4,6-Dinitro-2-methylphenol	<0.8 - <1.87 µg/L	n/a †	30 µg/L	<1.7 µg/L	<1.86 µg/L	<1.86 µg/L	<1.86 µg/L	<1.7 µg/L	<1.66 µg/L	<1.5 µg/L	<1.55 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEB Available

‡ No Contact Recreation PCL Available

(N) QC Detected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire  
Surface Water Screening Values - December 6, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS006		WS010		WS014		WS015	
				PNTX1206X006A	PNTX1206X006B	PNTX1206X010	PNTX1206X014A	PNTX1206X014B	PNTX1206X015		
				Level 2 Verified	Pending Validation						
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.041 µg/L	<0.045 µg/L	NA	<0.10 µg/L	<0.04 µg/L	<0.04 µg/L	NA	<0.22 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	325 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	25.35 µg/L	93.9 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	5299 µg/L	11300 µg/L	<0.2 µg/L	<0.526 µg/L	NA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	130 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	<0.4 µg/L	PA	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	NA	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	650 µg/L	650 µg/L	<0.2 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	NA	<0.526 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L	0.59 µg/L (J)	PA	0.59 µg/L	0.5 µg/L	0.5 µg/L	NA	0.59 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	526 µg/L	9760 µg/L	<0.2 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	190 µg/L	900 µg/L	<0.2 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	NA	<0.526 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	2.16 µg/L (J)	2.54 µg/L (J)	PA	44.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	2.83 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	<1 µg/L	<1 µg/L	PA	<2 µg/L	<1 µg/L	<1 µg/L	NA	<1 µg/L
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	PA	<1 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.041 µg/L	0.041 µg/L	NA	0.10 µg/L	0.04 µg/L	0.04 µg/L	NA	0.099 µg/L (J)
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	195 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.8 µg/L	PA	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	NA	<0.8 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,4-Dinitrophenol	<0.8 - <1.87 µg/L	600 µg/L	1270 µg/L	<1 µg/L	<1 µg/L	PA	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	NA	<1.87 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	455 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.526 µg/L	2000 µg/L	870 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.526 µg/L	PA	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
4-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	PA	<0.4 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	1.65 µg/L (J)	<0.2 µg/L	PA	16.1 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
4-Nitroaniline	<0.8 - 1.518 µg/L	n/a †	966 µg/L	<1 µg/L	<1 µg/L	PA	<1.518 µg/L	<1.6 µg/L	<1.6 µg/L	NA	<1.5 µg/L
4-Nitrophenol	<0.8 - <1.87 µg/L	n/a †	1120 µg/L	<1 µg/L	<1 µg/L	PA	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	NA	<1.87 µg/L
4,6-Dinitro-2-methylphenol	<0.8 - <1.87 µg/L	30 µg/L	30 µg/L	<1 µg/L	<1 µg/L	PA	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	NA	<1.87 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS006 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL available  
(R) QC detected for unreliable result  
(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 6, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS016		WS017
				PNTX1204X016		PNTX1204X017
				Level 2 Verified	Pending Validation	Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	NA	<0.137 µg/L	<0.04 µg/L
1,1-Dichloroethane	<0.2 - <0.6 µg/L	n/a †	48000 µg/L	NA	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	NA	<0.03 µg/L	<0.03 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	NA	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	NA	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	NA	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	NA	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	NA	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	NA	<0.01 µg/L	<0.01 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	5259 µg/L	11300 µg/L	NA	<0.01 µg/L	<0.01 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	NA	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	NA	<0.4 µg/L	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	NA	<0.01 µg/L	<0.01 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	NA	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	650 µg/L	NA	<0.01 µg/L	<0.01 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	NA	0.415 µg/L (J)	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	NA	<0.01 µg/L	<0.01 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	NA	4.68 µg/L (J)	<0.01 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	526 µg/L	9750 µg/L	NA	<0.01 µg/L	<0.01 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	NA	<0.01 µg/L	<0.01 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	NA	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	NA	2.08 µg/L (J)	<0.01 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5480 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1550 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	NA	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	NA	0.157 µg/L	<0.04 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	156 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2-Nitrophenol	<0.5 - <0.9 µg/L	n/a †	686 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	NA	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	730 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	300 µg/L	1270 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	455 µg/L	NA	<0.01 µg/L	<0.01 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	NA	<0.01 µg/L	<0.01 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	NA	<0.01 µg/L	<0.01 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	NA	<0.01 µg/L	<0.01 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	NA	<0.01 µg/L	<0.01 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.526 µg/L	2000 µg/L	870 µg/L	NA	<0.01 µg/L	<0.01 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	NA	<0.01 µg/L	<0.01 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	NA	<0.01 µg/L	<0.01 µg/L
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2120 µg/L	NA	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	NA	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	NA	2.28 µg/L (J)	1.75 µg/L (J)
4-Nitroaniline	<0.5 - 1.53 µg/L	n/a †	966 µg/L	NA	<0.01 µg/L	<0.01 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	NA	<0.01 µg/L	<0.01 µg/L
4,6-Dinitro-2-methylphenol	<0.5 - <1.67 µg/L	30 µg/L	1100 µg/L	NA	<0.01 µg/L	<0.01 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC requested for unreliable result

(J) Quantitative is approximate



South 4 Group Fire

Surface Water Screening Values - December 6, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS006		WS010		WS014		WS015	
				PNTX1206X008A	PNTX1206X008B	PNTX1206X010		PNTX1206X014A	PNTX1206X014B	PNTX1206X015	
				Level 2 Verified	Pending Validation						
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	< 122 µg/L	< 130 µg/L	NA	2.130 µg/L (J)	< 114 µg/L	< 176 µg/L	NA	1,260 µg/L (J)
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 125 µg/L	< 130 µg/L	NA	< 122 µg/L	< 128 µg/L	< 121 µg/L	NA	< 123 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.019 µg/L	< 0.75 µg/L	NA	0.030 µg/L (J)	< 0.019 µg/L	< 0.36 µg/L	NA	0.145 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	n/a †	< 0.041 µg/L	0.304 µg/L	NA	0.54 µg/L	< 0.041 µg/L	< 0.74 µg/L	NA	0.940 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	22.3 µg/L	25.1 µg/L	NA	0.14 µg/L	2.66 µg/L (J)	2.04 µg/L (J)	NA	0.8 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0 µg/L	< 2.0 µg/L	< 2.0 µg/L	NA	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	n/a †	75.7 µg/L	< 1 µg/L	< 1 µg/L	NA	< 1 µg/L	< 1 µg/L	< 1 µg/L	NA	< 1 µg/L
Aniline	< 0.6 - 0.780 µg/L	n/a †	4630 µg/L	< 0.745 µg/L	< 0.781 µg/L	NA	7.73 µg/L (J)	13.76 µg/L	< 0.74 µg/L	NA	< 0.781 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1317 µg/L	10700 µg/L	0.055 µg/L (J)	0.067 µg/L (J)	NA	0.092 µg/L (J)	< 0.041 µg/L	< 0.04 µg/L	NA	0.066 µg/L (J)
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.1 µg/L	< 0.1 µg/L	NA	3.11 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	NA	2.14 µg/L (J)
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.63 µg/L	< 2.63 µg/L	NA	< 2.53 µg/L	< 2.55 µg/L	< 2.5 µg/L	NA	< 2.63 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.026 µg/L	< 0.025 µg/L	NA	0.055 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L	NA	< 0.077 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	< 0.013 µg/L	NA	0.04 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	NA	< 0.079 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	< 0.019 µg/L	NA	0.041 µg/L (J)	< 0.019 µg/L	< 0.019 µg/L	NA	< 0.118 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	0.021 µg/L (J)	< 0.013 µg/L	NA	0.036 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	NA	< 0.062 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	n/a †	n/a †	< 0.026 µg/L	< 0.026 µg/L	NA	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	NA	< 0.051 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 1.56 µg/L	NA	< 1.52 µg/L	< 1.02 µg/L	< 1.0 µg/L	NA	< 1.5 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.1 µg/L	< 0.101 µg/L	NA	< 0.525 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	NA	0.525 µg/L	0.51 µg/L	0.5 µg/L	NA	< 0.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.9 µg/L	< 0.5 µg/L	< 0.501 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.501 µg/L	NA	< 0.501 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.85 µg/L	n/a †	< 0.25 µg/L	< 0.263 µg/L	NA	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.263 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28600 µg/L	< 0.5 µg/L	< 0.2 µg/L	NA	< 0.4 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	0.066 µg/L (J)	0.066 µg/L (J)	NA	1.49 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 1 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.263 µg/L	NA	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.263 µg/L
C6-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 105 µg/L	< 109 µg/L	NA	201 µg/L (J)	< 109 µg/L	< 109 µg/L	NA	< 109 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.501 µg/L	NA	< 0.525 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	n/a †	46 µg/L	< 0.25 µg/L	< 0.591 µg/L	NA	< 0.5 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.6 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.5 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	22.4 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	0.599 µg/L (J)
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.4 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Chrysene	< 0.026 - 0.062 µg/L	2.52 µg/L	n/a †	< 0.026 µg/L	< 0.026 µg/L	NA	0.05 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L	NA	< 0.062 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.4 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.4 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.1 µg/L	< 0.501 µg/L	NA	< 0.525 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.263 µg/L	NA	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.263 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	< 0.026 µg/L	< 0.026 µg/L	NA	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	NA	< 0.026 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.501 µg/L	NA	< 0.525 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	363 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.4 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.5 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.4 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.501 µg/L	NA	< 0.525 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.501 µg/L	NA	< 0.525 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	0.70 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	1.09 µg/L (J)
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.265 µg/L	< 0.265 µg/L	NA	< 0.265 µg/L	< 0.255 µg/L	< 0.255 µg/L	NA	0.372 µg/L (J)
Fluoranthene	< 0.013 - 0.102 µg/L	20 µg/L	n/a †	0.066 µg/L (J)	0.067 µg/L (J)	NA	0.097 µg/L	< 0.013 µg/L	< 0.013 µg/L	NA	0.102 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.041 µg/L	< 0.101 µg/L	NA	0.150 µg/L	< 0.041 µg/L	< 0.04 µg/L	NA	< 0.041 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS006 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL available  
(N) QC detected for unreliable result  
(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 6, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS016		WS017
				PNTX1204X016		PNTX1204X017
				Level 2 Verified	Pending Validation	Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	NA	4.330 µg/L	< 121 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	NA	< 124 µg/L	< 121 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	NA	0.0395 µg/L	< 0.033 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	NA	0.084 µg/L	< 0.04 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	NA	10 µg/L	9.3 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	NA	< 0.5 µg/L	< 2.51 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	NA	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.785 µg/L	n/a †	4630 µg/L	NA	< 0.735 µg/L	< 0.64 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1317 µg/L	10700 µg/L	NA	0.140 µg/L	< 0.041 µg/L
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	NA	0.076 µg/L (J)	< 0.21 µg/L
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	NA	< 2.35 µg/L	< 2.55 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	NA	0.151 µg/L	< 0.025 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	NA	0.104 µg/L	0.03 µg/L (J)
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	NA	0.373 µg/L	0.027 µg/L (J)
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	NA	0.151 µg/L	0.031 µg/L (J)
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	NA	0.064 µg/L (J)	< 0.025 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	NA	< 1.59 µg/L	< 1.59 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	NA	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.3 µg/L	NA	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	NA	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	NA	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.85 µg/L	n/a †	NA	< 0.255 µg/L	< 0.255 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28800 µg/L	NA	< 0.2 µg/L	< 0.21 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	NA	0.71 µg/L (J)	1.16 µg/L (J)
Bromoform	< 0.25 - < 0.25 µg/L	1080 µg/L	4300 µg/L	NA	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	NA	< 0.5 µg/L	< 0.51 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	NA	< 0.255 µg/L	< 0.255 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	NA	< 104 µg/L	< 104 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	NA	< 0.51 µg/L	< 0.51 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	NA	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	NA	< 0.25 µg/L	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	NA	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	NA	15.91 µg/L	17.7 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	NA	< 0.2 µg/L	< 0.21 µg/L
Chrysene	< 0.026 - 0.061 µg/L	2.52 µg/L	n/a †	NA	0.201 µg/L	0.025 µg/L (J)
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	NA	< 0.255 µg/L	< 0.255 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	NA	< 0.027 µg/L	< 0.025 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	23 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	NA	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12800 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	NA	< 0.265 µg/L	< 0.265 µg/L
Fluoranthene	< 0.013 - 0.102 µg/L	26 µg/L	n/a †	NA	0.076 µg/L	< 0.033 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	NA	0.120 µg/L	< 0.04 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEB Available

‡ No Contact Recreation PCL available

(N) QC requested for unreliable result

(J) Quantitative is approximate

South 4 Group Fire  
Surface Water Screening Values - December 6, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS001		WS002		WS003		WS004	
				PNTX1206X001A	PNTX1206X001B	PNTX1206X002A	PNTX1206X002B	PNTX1206X003A	PNTX1206X003B	PNTX1206X004A	PNTX1206X004B
				Level 2 Verified	Pending Validation						
Hexachlorobenzene	<0.5 - 0.525 µg/L	0.00045 µg/L	n/a †	<0.563 µg/L	<0.505 µg/L	<0.511 µg/L	<0.511 µg/L	<0.548 µg/L	<0.511 µg/L	<0.501 µg/L	<0.501 µg/L
Hexachlorobutadiene	<0.3 - 0.525 µg/L	0.22 µg/L	6.9 µg/L	<0.563 µg/L	<0.501 µg/L	<0.511 µg/L	<0.511 µg/L	<0.558 µg/L	<0.523 µg/L	<0.532 µg/L	<0.523 µg/L
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	255 µg/L	<1.7 µg/L	<1.30 µg/L	<1.33 µg/L	<1.33 µg/L	<1.7 µg/L	<1.59 µg/L	<1.59 µg/L	<1.59 µg/L
Hexachloroethane	<0.5 - 0.525 µg/L	0.233 µg/L	n/a †	<0.563 µg/L	<0.501 µg/L	<0.511 µg/L	<0.511 µg/L	<0.548 µg/L	<0.523 µg/L	<0.532 µg/L	<0.523 µg/L
Indeno(1,2,3-cd)pyrene	<0.013 - 0.048 µg/L	0.013 µg/L	n/a †	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	0.046 µg/L (J)	0.069 µg/L (J)	<0.013 µg/L	0.03 µg/L (J)
Isophorone	<0.5 - 0.525 µg/L	16000 µg/L	10400 µg/L	<0.563 µg/L	<0.501 µg/L	<0.511 µg/L	<0.511 µg/L	<0.568 µg/L	<0.523 µg/L	<0.532 µg/L	<0.523 µg/L
Isopropylbenzene (Cumene)	<0.2 - 0.8 µg/L	n/a †	8440 µg/L	<0.2 µg/L	0.79 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
m,p-Cresol	<0.25 - 0.278 µg/L	n/a †	19500 µg/L	<0.284 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L
m,p-Xylene	<0.2 - 0.2 µg/L	n/a †	n/a †	0.296 µg/L (J)	1.26 µg/L (J)	<0.2 µg/L	<0.2 µg/L	0.426 µg/L (J)	<0.2 µg/L	<0.2 µg/L	0.766 µg/L (J)
Methyl iodide	<0.5 - 0.5 µg/L	n/a †	670 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Methylene chloride	<0.2 - 0.212 µg/L	13333 µg/L	3370 µg/L	0.633 µg/L (J)	0.735 µg/L (J)	0.685 µg/L (J)	0.682 µg/L (J)	1.46 µg/L (J)	1.52 µg/L (J)	1.35 µg/L (J)	1.19 µg/L (J)
n-Butylbenzene	<0.2 - 0.7 µg/L	n/a †	1600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Nitrosodi-n-propylamine	<0.5 - 0.525 µg/L	9.1 µg/L	1.98 µg/L	<0.563 µg/L	<0.501 µg/L	<0.511 µg/L	<0.511 µg/L	<0.568 µg/L	<0.523 µg/L	<0.532 µg/L	<0.523 µg/L
n-Nitrosodimethylamine	<0.5 - 0.525 µg/L	50 µg/L	0.952 µg/L	<0.563 µg/L	<0.501 µg/L	<0.511 µg/L	<0.511 µg/L	<0.568 µg/L	<0.523 µg/L	<0.532 µg/L	<0.523 µg/L
n-Nitrosodiphenylamine	<0.5 - 0.525 µg/L	60 µg/L	421 µg/L	<0.563 µg/L	<0.501 µg/L	<0.511 µg/L	<0.511 µg/L	<0.568 µg/L	<0.523 µg/L	<0.532 µg/L	<0.523 µg/L
n-Propylbenzene	<0.5 - 0.5 µg/L	n/a †	2350 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Naphthalene	<0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.07 µg/L (J)	n/a	0.051 µg/L	0.222 µg/L	0.357 µg/L	0.575 µg/L	0.291 µg/L	0.597 µg/L
Nitrobenzene	<0.5 - 0.525 µg/L	1673 µg/L	248 µg/L	<0.563 µg/L	<0.501 µg/L	<0.511 µg/L	<0.511 µg/L	<0.568 µg/L	<0.523 µg/L	<0.532 µg/L	<0.523 µg/L
o-Cresol	<0.5 - 0.5 µg/L	n/a †	19500 µg/L	<0.563 µg/L	<0.501 µg/L	<0.511 µg/L	<0.511 µg/L	<0.568 µg/L	<0.523 µg/L	<0.532 µg/L	<0.523 µg/L
o-Xylene	<0.2 - 0.2 µg/L	n/a †	227000 µg/L	<0.2 µg/L	0.731 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.245 µg/L (J)
Oil and Grease	<1500 - 0.1600 µg/L	n/a †	n/a †	<1.8 mg/L	<1.8 mg/L	<1.8 mg/L	2 mg/L (J)	3.2 mg/L (J)	4.1 mg/L (J)	3.9 mg/L (J)	2.7 mg/L (J)
Pentachlorophenol	<0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	<0.563 µg/L	<0.501 µg/L	<0.511 µg/L	<0.511 µg/L	<0.568 µg/L	<0.523 µg/L	<0.532 µg/L	<0.523 µg/L
PFHxS	<1.37 - 0.64 µg/L	n/a †	49.4 µg/L	<1.37 µg/L	13.4 µg/L	<0.511 µg/L	<0.511 µg/L	20.4 µg/L	21.3 µg/L	49 µg/L	60.3 µg/L
PFOA	<1.5 - 1.85 µg/L	n/a †	n/a †	11.5 µg/L	9.59 µg/L (J)	17.4 µg/L	16.6 µg/L	18.9 µg/L	15 µg/L	2.8 µg/L	21.5 µg/L
PFOS	<1.42 - 6 µg/L	n/a †	n/a †	185 µg/L (J)	<0.7 µg/L	3.67 µg/L	290 µg/L	3.31 µg/L	95.4 µg/L	115 µg/L	163 µg/L
Phenanthrene	<0.013 - 0.048 µg/L	n/a †	1070 µg/L	0.15 µg/L	0.32 µg/L	<0.013 µg/L	<0.013 µg/L	0.466 µg/L	0.631 µg/L	0.597 µg/L	0.612 µg/L
Phenol	<0.5 - 0.558 µg/L	200000 µg/L	160000 µg/L	<0.563 µg/L	<0.501 µg/L	<0.511 µg/L	<0.511 µg/L	<0.568 µg/L	<0.523 µg/L	<0.532 µg/L	<0.523 µg/L
Pyrene	<0.026 - 0.037 µg/L	30 µg/L	n/a †	0.077 µg/L (J)	0.051 µg/L	<0.026 µg/L	<0.026 µg/L	0.257 µg/L	0.51 µg/L	0.107 µg/L (J)	0.251 µg/L
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	<1.7 µg/L	<1.56 µg/L	<1.56 µg/L	<1.56 µg/L	<1.7 µg/L	<1.56 µg/L	<1.56 µg/L	<1.56 µg/L
sec-Butylbenzene	<0.2 - 0.5 µg/L	n/a †	1950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Styrene	<0.2 - 0.8 µg/L	n/a †	29600 µg/L	<0.2 µg/L	0.209 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.275 µg/L (J)
tert-Butyl methyl ether (MTBE)	<0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	<0.2 µg/L	0.29 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
tert-Butylbenzene	<0.2 - 0.5 µg/L	n/a †	1400 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Tetrachloroethene	<0.2 - 0.6 µg/L	280 µg/L	148 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Toluene	<0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	<0.2 µg/L	<0.2 µg/L						
Total Organic Carbon	<520 - 3350 µg/L	n/a †	n/a †	24.8 mg/L	11.8 mg/L	23.8 mg/L	20.3 mg/L	39.3 mg/L	41.7 mg/L	42.4 mg/L	38.1 mg/L
Total TPH (C6-C9)	<107 - 0.103 µg/L	n/a †	n/a †	<1.00 µg/L	<1.04 µg/L	<1.04 µg/L	<1.04 µg/L	<1.04 µg/L	<1.04 µg/L	<1.04 µg/L	1.580 µg/L (J)
trans-1,2-Dichloroethene	<0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,3-Dichloropropene	<0.2 - 0.3 µg/L	n/a †	230 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L						
Trichloroethene	<0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorofluoromethane	<0.2 - 0.2 µg/L	n/a †	43300 µg/L	<0.2 µg/L	<0.2 µg/L						
Trichlorotrifluoroethane	<0.2 - 0.2 µg/L	n/a †	6040000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl acetate	<0.2 - 0.2 µg/L	n/a †	748000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl chloride	<0.2 - 0.1 µg/L	11.3 µg/L	15.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Xylene (total)	<0.4 - 0.1 µg/L	n/a †	24000 µg/L	<0.4 µg/L	2.09 µg/L (J)	<0.4 µg/L	<0.4 µg/L	0.426 µg/L (J)	<0.4 µg/L	<0.4 µg/L	1.15 µg/L (J)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS000 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
 † No Surface Water DSEL Available  
 ‡ No Contact Recreation PCL Available  
 (P) QC Rejected for unreliable result  
 (J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 6, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS006		WS010		WS014		WS015	
				PNTX1206X008A	PNTX1206X008B	PNTX1206X010	PNTX1206X014A	PNTX1206X014B	PNTX1206X015		
				Level 2 Verified	Pending Validation						
Hexachlorobenzene	<0.5 - 0.526 µg/L	0.70045 µg/L	n/a †	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
Hexachlorobutadiene	<0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	255 µg/L	<1.1 µg/L	<1.105 µg/L	NA	<1.1 µg/L	<1.105 µg/L	<1.1 µg/L	NA	<1.105 µg/L
Hexachloroethane	<0.5 - 0.526 µg/L	0.333 µg/L	n/a †	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.501 µg/L
Indeno(1,2,3-cd)pyrene	<0.013 - 0.098 µg/L	0.013 µg/L	n/a †	<0.013 µg/L	<0.013 µg/L	NA	0.025 µg/L (J)	<0.013 µg/L	<0.013 µg/L	NA	<0.013 µg/L
Isophorone	<0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
Isopropylbenzene (Cumene)	<0.2 - 0.8 µg/L	n/a †	8440 µg/L	<0.2 µg/L	<0.2 µg/L	NA	0.538 µg/L (J)	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
m,p-Cresol	<0.25 - 0.276 µg/L	n/a †	19500 µg/L	<0.25 µg/L	<0.25 µg/L	NA	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	NA	<0.25 µg/L
m,p-Xylene	<0.2 - 0.2 µg/L	n/a †	n/a †	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	0.893 µg/L (J)
Methyl iodide	<0.5 - 0.5 µg/L	n/a †	670 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
Methylene chloride	<0.2 - 0.2 µg/L	13333 µg/L	3370 µg/L	1.25 µg/L (J)	0.722 µg/L (J)	NA	2.65 µg/L (J)	0.663 µg/L (J)	0.56 µg/L (J)	NA	1.17 µg/L (J)
n-Butylbenzene	<0.2 - 0.7 µg/L	n/a †	1200 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
n-Nitrosodi-n-propylamine	<0.5 - 0.526 µg/L	9.1 µg/L	1.98 µg/L	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
n-Nitrosodimethylamine	<0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
n-Nitrosodiphenylamine	<0.5 - 0.526 µg/L	60 µg/L	421 µg/L	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.501 µg/L
n-Propylbenzene	<0.5 - 0.5 µg/L	n/a †	2950 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
Naphthalene	<0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.176 µg/L	0.077 µg/L (J)	NA	0.82 µg/L	<0.013 µg/L	<0.013 µg/L	NA	0.256 µg/L
Nitrobenzene	<0.5 - 0.526 µg/L	1673 µg/L	248 µg/L	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
o-Cresol	<0.5 - 0.5 µg/L	n/a †	19500 µg/L	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.501 µg/L
o-Xylene	<0.2 - 0.2 µg/L	n/a †	227000 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	0.485 µg/L (J)
Oil and Grease	<1500 - 0.1600 µg/L	n/a †	n/a †	3.8 mg/L	3.2 mg/L (J)	NA	3 mg/L (J)	2.6 mg/L (J)	1.5 mg/L (J)	NA	2.6 mg/L (J)
Pentachlorophenol	<0.5 - 0.5 µg/L	0.29 µg/L	9.32 µg/L	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.501 µg/L
PFHxS	<1.37 - 0.64 µg/L	n/a †	n/a †	27.1 ng/L	25.7 ng/L	NA	22.4 ng/L	<1.37 µg/L	<1.37 µg/L	NA	10.9 ng/L
PFOA	<1.5 - 1.83 ng/L	n/a †	n/a †	15 ng/L	18 ng/L	NA	5.45 ng/L (J)	<1.5 ng/L	<1.8 ng/L	NA	4.55 ng/L (J)
PFOS	<1.42 - 6 ng/L	n/a †	n/a †	8.1 ng/L	19.9 ng/L	NA	NA	1.72 ng/L (J)	11.7 ng/L	NA	334 ng/L (J)
Phenanthrene	<0.013 - 0.038 µg/L	n/a †	1070 µg/L	0.039 µg/L (J)	0.056 µg/L (J)	NA	0.46 µg/L	<0.013 µg/L	<0.013 µg/L	NA	0.937 µg/L
Phenol	<0.5 - 0.558 µg/L	300000 µg/L	160000 µg/L	<0.5 µg/L	<0.501 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
Pyrene	<0.026 - 0.037 µg/L	30 µg/L	n/a †	0.071 µg/L (J)	0.044 µg/L (J)	NA	0.35 µg/L	<0.026 µg/L	<0.026 µg/L	NA	0.25 µg/L
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	<1.1 µg/L	<1.105 µg/L	NA	<1.1 µg/L	<1.105 µg/L	<1.1 µg/L	NA	<1.105 µg/L
sec-Butylbenzene	<0.2 - 0.5 µg/L	n/a †	1950 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
Styrene	<0.2 - 0.8 µg/L	n/a †	29600 µg/L	<0.2 µg/L	<0.2 µg/L	NA	220 µg/L	<0.2 µg/L	<0.2 µg/L	NA	2.62 µg/L (J)
tert-Butyl methyl ether (MTBE)	<0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	15.3 µg/L	15.3 µg/L	NA	48 µg/L	<0.2 µg/L	<0.2 µg/L	NA	15.3 µg/L
tert-Butylbenzene	<0.2 - 0.5 µg/L	n/a †	1400 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
Tetrachloroethene	<0.2 - 0.6 µg/L	280 µg/L	146 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
Toluene	<0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
Total Organic Carbon	<570 - 3350 µg/L	n/a †	n/a †	19.3 mg/L	11.5 mg/L	NA	50.3 mg/L	10.3 mg/L	10.1 mg/L	NA	17.4 mg/L
Total TPH (C6-C9)	<107 - 0.103 µg/L	n/a †	n/a †	<1.05 µg/L	2.84 µg/L	NA	2,330 µg/L (J)	<1.07 µg/L	<1.07 µg/L	NA	1,360 µg/L (J)
trans-1,2-Dichloroethene	<0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
trans-1,3-Dichloropropene	<0.2 - 0.1 µg/L	n/a †	250 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
Trichloroethene	<0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
Trichlorofluoromethane	<0.2 - 0.2 µg/L	n/a †	43300 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
Trichlorotrifluoroethane	<0.2 - 0.2 µg/L	n/a †	6040000 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
Vinyl acetate	<0.2 - 0.2 µg/L	n/a †	748000 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
Vinyl chloride	<0.2 - 0.1 µg/L	11.3 µg/L	16.5 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
Xylene (total)	<0.4 - 0.1 µg/L	n/a †	24000 µg/L	<0.4 µg/L	<0.4 µg/L	NA	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	NA	1.39 µg/L (J)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS006 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water DSEL Available  
‡ No Contact Recreation PCL available  
(J) QC Rejected for unreliable result  
(J) Quantization is approximate

South 4 Group Fire

Surface Water Screening Values - December 6, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS016		WS017	
				PNTX1204X016		PNTX1204X017	
				Level 2 Verified	Pending Validation	Level 2 Verified	Pending Validation
Hexachlorobenzene	< 0.5 - 0.525 µg/L	0.7000 µg/L	n/a †	NA	< 0.51 µg/L	< 0.51 µg/L	
Hexachlorobutadiene	< 0.3 - 0.525 µg/L	0.22 µg/L	6.9 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L	
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L	
Hexachloroethane	< 0.5 - 0.525 µg/L	2.33 µg/L	n/a †	NA	< 0.51 µg/L	< 0.51 µg/L	
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.098 µg/L	0.013 µg/L	n/a †	NA	0.117 µg/L	0.036 µg/L (J)	
Isophorone	< 0.5 - 0.525 µg/L	1600 µg/L	10400 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L	
Isopropylbenzene (Cumene)	< 0.2 - 0.8 µg/L	n/a †	8440 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	NA	< 0.25 µg/L	< 0.25 µg/L	
m,p-Xylene	< 0.2 - 0.2 µg/L	n/a †	n/a †	NA	0.784 µg/L (J)	< 0.2 µg/L	
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L	
Methylene chloride	< 0.2 - 0.2 µg/L	13333 µg/L	3370 µg/L	NA	0.703 µg/L (J)	1.1 µg/L (J)	
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1200 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
n-Nitrosodi-n-propylamine	< 0.5 - 0.525 µg/L	5.1 µg/L	1.98 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L	
n-Nitrosodimethylamine	< 0.5 - 0.525 µg/L	50 µg/L	0.962 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L	
n-Nitrosodiphenylamine	< 0.5 - 0.525 µg/L	60 µg/L	421 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L	
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2550 µg/L	NA	< 1 µg/L	< 1 µg/L	
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	NA	0.297 µg/L	0.25 µg/L	
Nitrobenzene	< 0.5 - 0.525 µg/L	1672 µg/L	248 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L	
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L	
o-Xylene	< 0.2 - 0.2 µg/L	n/a †	227000 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a †	NA	8.4 µg/L	< 1.5 µg/L	
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L	
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	NA	17.2 ng/L	23.5 ng/L	
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	NA	1.6 ng/L	16.3 ng/L	
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	NA	1.2 ng/L	76.2 ng/L	
Phenanthrene	< 0.013 - 0.048 µg/L	n/a †	1070 µg/L	NA	0.23 µg/L	< 0.013 µg/L	
Phenol	< 0.5 - 0.558 µg/L	200000 µg/L	160000 µg/L	NA	< 0.51 µg/L	< 0.51 µg/L	
Pyrene	< 0.026 - 0.037 µg/L	30 µg/L	n/a †	NA	0.618 µg/L	< 0.026 µg/L	
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	717 µg/L	NA	< 1.56 µg/L	< 1.56 µg/L	
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1950 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
Styrene	< 0.2 - 0.8 µg/L	n/a †	29600 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	NA	15.8 µg/L	15.2 µg/L	
tert-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1400 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	146 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
Total Organic Carbon	< 500 - 3350 µg/L	n/a †	n/a †	NA	101.2 µg/L	45.2 mg/L	
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	NA	4.007 µg/L	< 1.7 µg/L	
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
trans-1,3-Dichloropropene	< 0.2 - 0.1 µg/L	n/a †	250 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	NA	< 0.5 µg/L	< 0.5 µg/L	
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	43300 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	604000 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
Vinyl chloride	< 0.2 - 1 µg/L	16.5 µg/L	11.3 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L	
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	NA	0.784 µg/L (J)	< 0.4 µg/L	

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS003

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water PSEL Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate









South 4 Group Fire  
Surface Water Screening Values - December 7, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS001		WS002		WS003		WS004	
				PNTX1207X001A	PNTX1207X001B	PNTX1207Y002A	PNTX1207Y002B	PNTX1207V003B	PNTX1207X003A	PNTX1207X003B	PNTX1207X004A
				Level 2 Verified							
Hexachlorobenzene	<0.5 - 0.526 µg/L	0.00045 µg/L	n/a †	<0.5 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L
Hexachlorobutadiene	<0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	<0.5 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.52 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	255 µg/L	<1 µg/L	<1.02 µg/L	<1 µg/L	<1.02 µg/L	<1.02 µg/L	<1.02 µg/L	<1 µg/L	<1.02 µg/L
Hexachloroethane	<0.5 - 0.526 µg/L	0.23 µg/L	n/a †	<0.5 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.52 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
Indeno(1,2,3-cd)pyrene	<0.013 - 0.088 µg/L	0.013 µg/L	n/a †	0.012 µg/L (R)	<0.013 µg/L	<0.01 µg/L	<0.01 µg/L	<0.02 µg/L	<0.02 µg/L	<0.02 µg/L	<0.02 µg/L
Isophorone	<0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	<0.5 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.52 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
Isopropylbenzene (Cumene)	<0.2 - 0.6 µg/L	n/a †	8440 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
m,p-Cresol	<0.25 - 0.276 µg/L	n/a †	19500 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L
m,p-Xylene	<0.2 - 0.2 µg/L	n/a †	n/a †	0.316 µg/L (J)	0.451 µg/L (J)	<0.2 µg/L	<0.2 µg/L	0.572 µg/L (J)	<0.2 µg/L	0.222 µg/L (J)	<0.2 µg/L
Methyl iodide	<0.5 - 0.5 µg/L	n/a †	670 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Methylene chloride	<0.2 - 0.2 µg/L	13333 µg/L	3370 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Butylbenzene	<0.2 - 0.2 µg/L	n/a †	1200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Nitrosodi-n-propylamine	<0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	<0.5 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.52 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
n-Nitrosodimethylamine	<0.5 - 0.526 µg/L	50 µg/L	0.952 µg/L	<0.5 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.52 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
n-Nitrosodiphenylamine	<0.5 - 0.526 µg/L	60 µg/L	421 µg/L	<0.5 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.52 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
n-Propylbenzene	<0.5 - 0.5 µg/L	n/a †	2250 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Naphthalene	<0.013 - 0.2 µg/L	n/a †	2550 µg/L	<0.013 µg/L	<0.013 µg/L	0.255 µg/L	0.255 µg/L	0.558 µg/L	0.291 µg/L (J)	0.49 µg/L	0.291 µg/L (J)
Nitrobenzene	<0.5 - 0.526 µg/L	1672 µg/L	248 µg/L	<0.5 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.52 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
o-Cresol	<0.5 - 0.5 µg/L	n/a †	19500 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
o-Xylene	<0.2 - 0.2 µg/L	n/a †	227000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.289 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Oil and Grease	<1500 - 0.1600 mg/L	n/a †	n/a †	<1.5 mg/L	<1.7 mg/L	1.7 mg/L (J)	<1.5 mg/L	3.3 mg/L	3.1 mg/L (J)	3.6 mg/L (J)	2.3 mg/L (J)
Pentachlorophenol	<0.5 - 0.5 µg/L	0.29 µg/L	9.32 µg/L	<0.5 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.52 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
PFHxS	<1.37 - 1.64 ng/L	n/a †	27.3 ng/L	<1.37 ng/L	<1.64 ng/L	1.37 ng/L	1.64 ng/L	1.67 ng/L	2.9 ng/L	1.03 ng/L	17.0 ng/L
PFOA	<1.5 - 1.85 ng/L	n/a †	n/a †	6.67 ng/L (J)	14.5 ng/L	14.4 ng/L	26 ng/L	4.1 ng/L	26.7 ng/L	43.3 ng/L	21.6 ng/L
PFOS	<1.42 - 6 ng/L	n/a †	n/a †	16.6 ng/L	377 ng/L	31.4 ng/L	31.1 ng/L	2.3 ng/L	19.9 ng/L	215 ng/L	144 ng/L
Phenanthrene	<0.013 - 0.048 µg/L	n/a †	1070 µg/L	0.075 µg/L (J)	0.239 µg/L (J)	<0.013 µg/L	<0.013 µg/L	0.496 µg/L	0.155 µg/L (J)	0.394 µg/L	0.23 µg/L (J)
Phenol	<0.5 - 0.558 µg/L	200000 µg/L	160000 µg/L	<0.5 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.52 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
Pyrene	<0.026 - 0.087 µg/L	30 µg/L	n/a †	0.025 µg/L (R)	0.067 µg/L (J)	<0.026 µg/L	<0.026 µg/L	0.163 µg/L	0.06 µg/L (J)	0.152 µg/L	0.191 µg/L (J)
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	1 µg/L (R)	1.53 µg/L (R)	1 µg/L (R)	1.53 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1.5 µg/L (R)	1.69 µg/L (R)
sec-Butylbenzene	<0.2 - 0.5 µg/L	n/a †	1950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Styrene	<0.2 - 0.8 µg/L	n/a †	29600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.255 µg/L (J)	<0.2 µg/L	<0.2 µg/L	0.474 µg/L (J)
tert-Butyl methyl ether (MTBE)	<0.2 - 0.2 µg/L	n/a †	10462 µg/L	4.63 µg/L (J)	4.09 µg/L (J)	9.43 µg/L	35.2 µg/L	1.9 mg/L	1.9 mg/L	1.3 mg/L	12.7 µg/L
tert-Butylbenzene	<0.2 - 0.5 µg/L	n/a †	1400 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Tetrachloroethene	<0.2 - 0.6 µg/L	280 µg/L	148 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Toluene	<0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.557 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Total Organic Carbon	<550 - 3350 µg/L	n/a †	n/a †	38.1 mg/L	17.8 mg/L	33.8 mg/L	23 mg/L	45.7 mg/L	67.7 mg/L	48.1 mg/L	41.7 mg/L
Total TPH (C6-C9)	<107 - 0.103 mg/L	n/a †	n/a †	<1.05 mg/L	<1.03 mg/L	<1.17 mg/L	587 µg/L (J)	1.49 mg/L	617 µg/L (J)	1.530 mg/L (J)	1.940 mg/L (J)
trans-1,2-Dichloroethene	<0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,3-Dichloropropene	<0.2 - 0.3 µg/L	n/a †	250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 µg/L	n/a †	n/a †	<0.5 µg/L							
Trichloroethene	<0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorofluoromethane	<0.2 - 0.2 µg/L	n/a †	49300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorotrifluoroethane	<0.2 - 0.2 µg/L	n/a †	600000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl acetate	<0.2 - 0.2 µg/L	n/a †	748000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl chloride	<0.2 - 0.1 µg/L	11.3 µg/L	35.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Xylene (total)	<0.4 - 0.1 µg/L	n/a †	24000 µg/L	<0.4 µg/L	0.451 µg/L (J)	<0.4 µg/L	<0.4 µg/L	0.561 µg/L (J)	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L

**Detection Color Code**  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS000 and WS000  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water DISEL Available  
‡ No Contact Recreation PCL available  
(R) QC Rejected for unreliable result  
(J) Quantization is approximate

# South 4 Group Fire

Surface Water Screening Values - December 7, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS004		WS006		WS014		WS015		WS017	Detection Color Code
				PNTX1207X004B	PNTX1207X000A	PNTX1207Y000B	PNTX1207X014A	PNTX1207X014B	PNTX1207X015A	PNTX1207X015B	PNTX1207X017		
				Level 2 Verified									
Hexachlorobenzene	<0.5 - 0.525 ug/L	0.07046 ug/L	n/a †	<0.5 ug/L	<0.525 ug/L	<0.511 ug/L	<0.5 ug/L	<0.521 ug/L	Detected				
Hexachlorobutadiene	<0.3 - 0.526 ug/L	0.22 ug/L	6.9 ug/L	<0.5 ug/L	<0.526 ug/L	<0.518 ug/L	<0.518 ug/L	<0.522 ug/L	<0.522 ug/L	<0.522 ug/L	<0.5 ug/L	<0.521 ug/L	Detected Below RL
Hexachlorocyclopentadiene	<1 - 1.58 ug/L	11.6 ug/L	255 ug/L	<1 ug/L	<1.58 ug/L	<1.53 ug/L	<1.53 ug/L	<1.575 ug/L	<1.575 ug/L	<1.575 ug/L	<1.5 ug/L	<1.53 ug/L	Not Detected
Hexachloroethane	<0.5 - 0.526 ug/L	2.33 ug/L	n/a †	<0.5 ug/L	<0.526 ug/L	<0.519 ug/L	<0.519 ug/L	<0.523 ug/L	<0.523 ug/L	<0.523 ug/L	<0.5 ug/L	<0.521 ug/L	Not Detected
Indeno(1,2,3-cd)pyrene	<0.013 - 0.098 ug/L	0.013 ug/L	n/a †	<0.013 ug/L	<0.014 ug/L	<0.011 ug/L	<0.012 ug/L	<0.011 ug/L	QA/QC Rejected				
Isophorone	<0.5 - 0.526 ug/L	19000 ug/L	10400 ug/L	<0.5 ug/L	<0.526 ug/L	<0.518 ug/L	<0.518 ug/L	<0.522 ug/L	<0.522 ug/L	<0.522 ug/L	<0.5 ug/L	<0.521 ug/L	Detected
Isopropylbenzene (Cumene)	<0.2 - 0.6 ug/L	n/a †	8440 ug/L	<0.2 ug/L	<0.6 ug/L	<0.2 ug/L	Detected						
m,p-Cresol	<0.25 - 0.278 ug/L	n/a †	19500 ug/L	<0.25 ug/L	<0.278 ug/L	<0.271 ug/L	<0.271 ug/L	<0.274 ug/L	<0.274 ug/L	<0.274 ug/L	<0.25 ug/L	<0.271 ug/L	Detected
m,p-Xylene	<0.2 - 0.6 ug/L	n/a †	n/a †	0.845 ug/L (J)	<0.6 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	0.971 ug/L (J)	1.3 ug/L (J)	<0.2 ug/L	Detected
Methyl iodide	<0.5 - 0.5 ug/L	n/a †	670 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	Not Detected
Methylene chloride	<0.2 - 2.12 ug/L	13833 ug/L	3370 ug/L	<0.2 ug/L	<2.12 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	Detected
n-Butylbenzene	<0.2 - 0.7 ug/L	n/a †	1600 ug/L	<0.2 ug/L	<0.7 ug/L	<0.2 ug/L	Detected						
n-Nitrosodi-n-propylamine	<0.5 - 0.526 ug/L	9.1 ug/L	1.98 ug/L	<0.5 ug/L	<0.526 ug/L	<0.518 ug/L	<0.518 ug/L	<0.522 ug/L	<0.522 ug/L	<0.522 ug/L	<0.5 ug/L	<0.521 ug/L	Detected
n-Nitrosodimethylamine	<0.5 - 0.526 ug/L	50 ug/L	0.952 ug/L	<0.5 ug/L	<0.526 ug/L	<0.518 ug/L	<0.518 ug/L	<0.522 ug/L	<0.522 ug/L	<0.522 ug/L	<0.5 ug/L	<0.521 ug/L	Detected
n-Nitrosodiphenylamine	<0.5 - 0.526 ug/L	60 ug/L	421 ug/L	<0.5 ug/L	<0.526 ug/L	<0.518 ug/L	<0.518 ug/L	<0.522 ug/L	<0.522 ug/L	<0.522 ug/L	<0.5 ug/L	<0.521 ug/L	Detected
n-Propylbenzene	<0.5 - 1 ug/L	n/a †	2950 ug/L	<0.5 ug/L	1.1 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	Detected
Naphthalene	<0.013 - 2 ug/L	n/a †	2550 ug/L	0.019 ug/L	0.159 ug/L (J)	0.037 ug/L	<0.013 ug/L	<0.013 ug/L	0.397 ug/L (J)	0.678 ug/L (J)	<0.013 ug/L	0.178 ug/L	Detected
Nitrobenzene	<0.5 - 0.526 ug/L	1672 ug/L	248 ug/L	<0.5 ug/L	<0.526 ug/L	<0.518 ug/L	<0.518 ug/L	<0.522 ug/L	<0.522 ug/L	<0.522 ug/L	<0.5 ug/L	<0.521 ug/L	Detected
o-Cresol	<0.5 - 0.5 ug/L	n/a †	19500 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	<0.5 ug/L	Detected
o-Xylene	<0.2 - 0.6 ug/L	n/a †	227000 ug/L	0.373 ug/L (J)	<0.6 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	0.65 ug/L (J)	0.809 ug/L (J)	<0.2 ug/L	Detected
Oil and Grease	<1500 - 1400 ug/L	n/a †	n/a †	4.1 mg/L (J)	4.4 mg/L (J)	4.7 mg/L (J)	<1.7 mg/L	<1.7 mg/L	<1.7 mg/L	<1.7 mg/L	11.3 mg/L	3.8 mg/L (J)	Detected
Pentachlorophenol	<0.5 - 0.6 ug/L	0.29 ug/L	9.32 ug/L	<0.5 ug/L	<0.6 ug/L	<0.575 ug/L	<0.575 ug/L	<0.588 ug/L	<0.588 ug/L	<0.588 ug/L	<0.5 ug/L	<0.581 ug/L	Detected
PFHxS	<1.37 - 1.64 ng/L	n/a †	181 ng/L	1.37 ng/L	1.64 ng/L	2.03 ng/L	1.64 ng/L	Not Detected					
PFOA	<1.5 - 1.83 ng/L	n/a †	n/a †	1.57 ng/L	1.83 ng/L	2.4 ng/L	<1.57 ng/L	<1.57 ng/L	<1.57 ng/L	<1.57 ng/L	<1.57 ng/L	<1.57 ng/L	Not Detected
PFOS	<1.42 - 8 ng/L	n/a †	n/a †	1.42 ng/L	8 ng/L	13.6 ng/L	<1.42 ng/L	<1.42 ng/L	<1.42 ng/L	<1.42 ng/L	<1.42 ng/L	<1.42 ng/L	Not Detected
Phenanthrene	<0.013 - 0.098 ug/L	n/a †	1070 ug/L	0.397 ug/L	<0.013 ug/L	0.098 ug/L (J)	<0.013 ug/L	<0.013 ug/L	<0.013 ug/L	<0.013 ug/L	0.753 ug/L (J)	<0.013 ug/L	Detected
Phenol	<0.5 - 0.558 ug/L	300000 ug/L	160000 ug/L	<0.5 ug/L	<0.558 ug/L	<0.55 ug/L	<0.55 ug/L	<0.55 ug/L	<0.55 ug/L	<0.55 ug/L	<0.5 ug/L	<0.551 ug/L	Detected
Pyrene	<0.028 - 0.087 ug/L	30 ug/L	n/a †	0.028 ug/L	0.054 ug/L (J)	0.033 ug/L (J)	<0.028 ug/L	<0.028 ug/L	<0.028 ug/L	0.234 ug/L (J)	0.461 ug/L (J)	<0.028 ug/L	Detected
Pyridine	<0.5 - 1.56 ug/L	947 ug/L	717 ug/L	1.0 ug/L (R)	1.56 ug/L (R)	1.92 ug/L (R)	1.76 ug/L (R)	1.56 ug/L (R)	Not Detected				
sec-Butylbenzene	<0.2 - 0.6 ug/L	n/a †	1950 ug/L	<0.2 ug/L	<0.6 ug/L	<0.2 ug/L	Detected						
Styrene	<0.2 - 0.6 ug/L	n/a †	29600 ug/L	0.312 ug/L (J)	<0.6 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	2.86 ug/L (J)	2.22 ug/L (J)	<0.2 ug/L	Detected
tert-Butyl methyl ether (MTBE)	<0.2 - 0.6 ug/L	n/a †	10462 ug/L	0.71 ug/L	<0.6 ug/L	<0.2 ug/L	Detected						
tert-Butylbenzene	<0.2 - 0.6 ug/L	n/a †	1400 ug/L	<0.2 ug/L	<0.6 ug/L	<0.2 ug/L	Detected						
Tetrachloroethene	<0.2 - 0.6 ug/L	280 ug/L	148 ug/L	<0.2 ug/L	<0.6 ug/L	<0.2 ug/L	Detected						
Toluene	<0.2 - 0.7 ug/L	1000 ug/L	18590 ug/L	<0.2 ug/L	<0.7 ug/L	<0.2 ug/L	Detected						
Total Organic Carbon	<500 - 3350 ug/L	n/a †	n/a †	<0.8 mg/L	0.8 mg/L	63.3 mg/L	0.8 mg/L	0.8 mg/L	0.8 mg/L	0.8 mg/L	0.8 mg/L	0.8 mg/L	Detected
Total TPH (C6-C9)	<107 - 1103 ug/L	n/a †	n/a †	1.130 ug/L (J)	295 ug/L (J)	2.230 ug/L (J)	<1.07 ug/L	2.520 ug/L (J)	Detected				
trans-1,2-Dichloroethene	<0.2 - 0.6 ug/L	4000 ug/L	6950 ug/L	<0.2 ug/L	<0.6 ug/L	<0.2 ug/L	Detected						
trans-1,3-Dichloropropene	<0.2 - 1 ug/L	n/a †	280 ug/L	<0.2 ug/L	<1 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	Detected
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 ug/L	n/a †	n/a †	<0.5 ug/L	<0.5 ug/L	Detected							
Trichloroethene	<0.2 - 0.7 ug/L	71.9 ug/L	1010 ug/L	<0.2 ug/L	<0.7 ug/L	<0.2 ug/L	Detected						
Trichlorofluoromethane	<0.2 - 0.2 ug/L	n/a †	43300 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	Detected
Trichlorotrifluoroethane	<0.2 - 0.2 ug/L	n/a †	6040000 ug/L	<0.2 ug/L	Detected								
Vinyl acetate	<0.2 - 0.2 ug/L	n/a †	748000 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	Detected
Vinyl chloride	<0.2 - 1 ug/L	11.3 ug/L	16.5 ug/L	<0.2 ug/L	<1 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	<0.2 ug/L	Detected
Xylene (total)	<0.4 - 1 ug/L	n/a †	24000 ug/L	1.22 ug/L (J)	<0.4 ug/L	1.52 ug/L (J)	1.91 ug/L (J)	<0.4 ug/L	Detected				

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

<sup>2</sup> Range from background samples collected at WS000 and WS009.

<sup>3</sup> Surface Water Risk Based Exposure Limit.

<sup>4</sup> Tier 1 Contact Recreation Water PCL.

† No Surface Water Data Available.

‡ No Contact Recreation PCL Available.

(R) QC Rejected for unreliable result.

(J) Quantization is approximate.

# South 4 Group Fire

Surface Water Screening Values - December 8, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS001		WS002		WS003		WS004	
				PNTX1208X003A Level 2 Verified	PNTX1208X003B Level 2 Verified	PNTX1208X002A Level 2 Verified	PNTX1208X002B Level 2 Verified	PNTX1208X003A Level 2 Verified	PNTX1208X003B Level 2 Verified	PNTX1208X004A Level 2 Verified	PNTX1208X004B Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.04 µg/L	<0.041 µg/L	<0.04 µg/L	0.048 µg/L (J)	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L	0.048 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	93.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	5299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	130 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.2 - <0.4 µg/L	n/a †	n/a †	<0.2 µg/L							
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	128 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.255 µg/L (J)	<0.2 µg/L	0.371 µg/L (J)
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	9.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L	1.12 µg/L (J)	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	0.604 µg/L (J)	<0.5 µg/L	0.762 µg/L (J)
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	536 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	190 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.8 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	4.43 µg/L (J)	3.9 µg/L	2.95 µg/L (J)	4.66 µg/L (J)
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	1 µg/L (P)	1 µg/L (P)	1 µg/L (Q)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.04 µg/L	<0.041 µg/L	<0.04 µg/L	0.092 µg/L (J)	<0.04 µg/L	0.497 µg/L	<0.04 µg/L	0.431 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	156 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	606 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrophenol	<0.5 - <1.87 µg/L	300 µg/L	1270 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	455 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L							
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	1240 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L							
4-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	3.19 µg/L (J)
4-Nitroaniline	<0.5 - 1.518 µg/L	n/a †	966 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4,6-Dinitro-2-methylphenol	<0.6 - <1.67 µg/L	30 µg/L	30 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L

Detection Color Code  
     Detected  
     Detected Below RL  
     Not Detected  
     QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water RIBEL Available

‡ No Contact Recreation PCL available

(R) QC Rejected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire  
Surface Water Screening Values - December 8, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS006		WS014		WS015		WS017		WS021
				PNTX1206K008A	PNTX1206K008B	PNTX1206N014	PNTX1206N015E	PNTX1206N015A	PNTX1206N015B	PNTX1206K017	PNTX1206K021	
				Level 2 Verified								
1-Methylnaphthalene	<0.041 <0.045 µg/L	n/a †	4800 µg/L	1.52 µg/L	2.33 µg/L	<0.041 µg/L	0.243 µg/L (J)	0.381 µg/L (J)	0.592 µg/L (J)	1.09 µg/L	0.666 µg/L (J)	
1,1-Dichloroethane	<0.2 <0.8 µg/L	n/a †	48600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,1-Dichloroethene	<0.2 <1 µg/L	551.14 µg/L	39500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,1-Dichloropropene	<0.2 <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,1,1-Trichloroethane	<0.2 <0.8 µg/L	78435 <sup>5</sup> µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,1,1,2-Tetrachloroethane	<0.2 <0.8 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,1,2-Trichloroethane	<0.2 <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,1,2,2-Tetrachloroethane	<0.2 <0.8 µg/L	25.35 µg/L	35.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,2-Dibromo-3-chloropropane	<0.2 <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,2-Dibromoethane	<0.2 <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,2-Dichlorobenzene	<0.2 <0.526 µg/L	3299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,2-Dichloroethane	<0.2 <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,2-Dichloroethene[Total]	<0.4 <0.4 µg/L	n/a †	n/a †	<0.4 µg/L								
1,2-Dichloropropane	<0.2 <0.8 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,2,3-Trichloropropane	<0.2 <0.8 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,2,4-Trichlorobenzene	<0.2 <0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,2,4-Trimethylbenzene	<0.2 <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,2-Diphenylhydrazine/Azobenzene	<0.5 <0.526 µg/L	2 µg/L	9.57 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
1,3-Butadiene	<0.5 <0.5 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	31.6 µg/L	38 µg/L	63 µg/L	63 µg/L	63 µg/L	
1,3-Dichlorobenzene	<0.2 <0.526 µg/L	595 µg/L	9760 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,3-Dichloropropane	<0.2 <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,3,5-Trimethylbenzene	<0.2 <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
1,4-Dichlorobenzene	<0.2 <0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
2-Butanone	<0.2 <0.8 µg/L	332000 µg/L	491000 µg/L	7.54 µg/L	7.61 µg/L	<0.2 µg/L	11.9 µg/L	1.9 µg/L	1.9 µg/L	2.22 µg/L	5.1 µg/L	
2-Chloroethylvinyl ether	1.1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	1 µg/L (P)	1 µg/L (P)	1 µg/L (Q)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	
2-Chloronaphthalene	<0.5 <0.526 µg/L	1000 µg/L	5480 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
2-Chlorophenol	<0.5 <1 µg/L	800 µg/L	1560 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
2-Chlorotoluene	<0.2 <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
2-Hexanone	<0.5 <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
2-Methylnaphthalene	<0.041 <1 µg/L	n/a †	276 µg/L	<0.041 µg/L	1.2 µg/L	<0.041 µg/L	0.217 µg/L (J)	0.175 µg/L (J)	0.65 µg/L (J)	<0.041 µg/L	0.548 µg/L (J)	
2-Nitroaniline	<0.5 <0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
2-Nitrophenol	<0.5 <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
2,2-Dichloropropane	<0.2 <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
2,4-Dichlorophenol	<0.5 <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
2,4-Dimethylphenol	<0.5 <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
2,4-Dinitrophenol	<0.8 <1.87 µg/L	300 µg/L	1270 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	
2,4-Dinitrotoluene	<0.5 <0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
2,4,5-Trichlorophenol	<0.5 <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
2,4,6-Trichlorophenol	<0.5 <0.8 µg/L	28 µg/L	455 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
2,6-Dinitrotoluene	<0.5 <0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
3-Nitroaniline	<0.5 <0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
3,3'-Dichlorobenzidine	<0.5 <0.526 µg/L	2.24 µg/L	26.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
4-Eromophenyl phenyl ether	<0.5 <0.526 µg/L	n/a †	n/a †	<0.5 µg/L								
4-Chloro-3-methylphenol	<0.5 <0.526 µg/L	2000 µg/L	820 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
4-Chloroaniline	<0.5 <0.526 µg/L	n/a †	1140 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	
4-Chlorophenyl phenyl ether	<0.5 <0.526 µg/L	n/a †	n/a †	<0.5 µg/L								
4-Chlorotoluene	<0.2 <0.6 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
4-Isopropyltoluene	<0.2 <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	
4-Methyl-2-pentanone	<0.2 <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	2.82 µg/L (J)	3.5 µg/L (J)	3.19 µg/L (J)	<0.2 µg/L	<0.2 µg/L	
4-Nitroaniline	<0.8 <1.58 µg/L	n/a †	966 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	
4-Nitrophenol	<0.8 <1.67 µg/L	n/a †	1120 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	
4,6-Dinitro-2-methylphenol	<0.8 <1.67 µg/L	30 µg/L	30 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	

Detection Color Code  
 [Green Box] Detected  
 [Yellow Box] Detected Below RL  
 [Grey Box] Not Detected  
 [Red Box] QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS006 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
<sup>5</sup> No Surface Water KIBL Available  
 † No Contact Recreation PCL available  
 (R) QC Rejected for unreliable result  
 (J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 8, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS022
				PNTX1208M022 Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.397 µg/L (L)
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.1 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36500 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	31.2 µg/L	<0.1 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.1 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.5 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	130 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.1 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	650 µg/L	<0.5 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3250 µg/L	<0.1 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.57 µg/L	<0.1 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	39.7 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9760 µg/L	<0.5 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.1 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3050 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	190 µg/L	<0.5 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	1.44 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.1 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.1 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	0.117 µg/L (L)
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	156 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.9 µg/L	n/a †	686 µg/L	<0.1 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	300 µg/L	1270 µg/L	<1.1 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	1400 µg/L	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	455 µg/L	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.1 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.1 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	<0.1 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2120 µg/L	<0.1 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	0.95 µg/L
4-Nitroaniline	<0.5 - 1.53 µg/L	n/a †	966 µg/L	<0.5 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<1.1 µg/L
4,6-Dinitro-2-methylphenol	<0.5 - <1.67 µg/L	30 µg/L	1100 µg/L	<1.67 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(R) QC rejected for unreliable result

(L) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 8, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS001		WS002		WS003		WS004		Detection Color Code
				PNTX1206X001A	PNTX1206X001B	PNTX1206Y002A	PNTX1206Y002B	PNTX1206X003A	PNTX1206X003B	PNTX1206X004A	PNTX1206X004B	
				Level 2 Verified								
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	< 22 µg/L	< 129 µg/L	< 144 µg/L	< 121 µg/L	< 114 µg/L	< 22 µg/L (J)	< 191 µg/L	< 1,716 µg/L (J)	Detected
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 22 µg/L	< 129 µg/L	< 144 µg/L	< 122 µg/L	< 129 µg/L	< 22 µg/L	< 125 µg/L	< 121 µg/L	Detected Below RL
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.019 µg/L	< 0.075 µg/L	< 0.033 µg/L	< 0.039 µg/L	Detected				
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	< 0.041 µg/L	0.069 µg/L (J)	< 0.041 µg/L	0.159 µg/L	1.45 µg/L	0.60 µg/L	1.10 µg/L	1.88 µg/L	Not Detected
Acetone	< 0.5 - 1.97 µg/L	n/a †	790000 µg/L	2.57 µg/L (J)	< 0.79 µg/L	3.91 µg/L (J)	< 0.71 µg/L	17.7 µg/L	< 1.8 µg/L	1.5 µg/L	< 37.8 µg/L	Not Detected
Acrolein	< 2 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	QA/QC Rejected
Acrylonitrile	< 1 - < 1 µg/L	n/a †	115 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	Detected
Aniline	< 0.5 - 0.788 µg/L	n/a †	4630 µg/L	< 0.788 µg/L	< 0.788 µg/L	< 0.788 µg/L	< 0.788 µg/L	< 0.788 µg/L	< 0.788 µg/L	< 0.788 µg/L	< 0.788 µg/L	Not Detected
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	0.09 µg/L (J)	Not Detected
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	< 0.2 µg/L	< 0.7 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.508 µg/L (J)	< 0.2 µg/L	0.343 µg/L (J)	Not Detected
Benzidine	< 1 - 2.63 µg/L	0.207 µg/L	0.156 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	Not Detected
Benzo(a)anthracene	< 0.025 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L	0.041 µg/L (J)	< 0.025 µg/L	< 0.025 µg/L	Not Detected				
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	0.025 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	Not Detected				
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	0.039 µg/L (J)	< 0.019 µg/L	< 0.019 µg/L	Not Detected				
Benzo(g,h,i)perylene	< 0.013 - 0.068 µg/L	n/a †	n/a †	< 0.013 µg/L	0.04 µg/L (J)	0.022 µg/L (J)	< 0.013 µg/L	Not Detected				
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L	0.091 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L	Not Detected				
Benzoic acid	< 0.5 - < 1.87 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 1.87 µg/L	< 1.87 µg/L	< 1.87 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 1.87 µg/L	Not Detected
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Not Detected
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.3 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Not Detected
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.9 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Not Detected
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	0.586 µg/L (J)	0.591 µg/L (J)	< 0.586 µg/L	< 0.586 µg/L	1.66 µg/L (J)	< 0.5 µg/L	1.4 µg/L (J)	10.51 µg/L	Not Detected
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.89 µg/L	n/a †	< 0.25 µg/L	Not Detected							
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4900 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Not Detected
Bromochloromethane	< 0.2 - < 1.1 µg/L	n/a †	28600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Not Detected
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.927 µg/L (J)	1.11 µg/L (J)	0.393 µg/L (J)	0.928 µg/L (J)	Not Detected
Bromoform	< 0.25 - < 0.25 µg/L	1080 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Not Detected
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Not Detected
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Not Detected
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 105 µg/L	< 104 µg/L	< 0.586 µg/L	< 0.586 µg/L	< 1.78 µg/L	< 0.99 µg/L	< 10 µg/L	< 10 µg/L	Not Detected
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	Not Detected							
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	Not Detected							
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L	Not Detected							
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Not Detected
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Not Detected
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2550 µg/L	1.89 µg/L (J)	1.44 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	14.9 µg/L	8.1 µg/L	5.5 µg/L	15.7 µg/L	Not Detected
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Not Detected
Chrysene	< 0.025 - 0.061 µg/L	2.52 µg/L	n/a †	< 0.025 µg/L	0.036 µg/L (J)	< 0.025 µg/L	< 0.025 µg/L	Not Detected				
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Not Detected
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Not Detected
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Not Detected
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	Not Detected							
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	< 0.026 µg/L	Not Detected							
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	23.9 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Not Detected
Dibromochloromethane	< 0.2 - < 1 µg/L	193 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Not Detected
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4900 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Not Detected
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Not Detected
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Not Detected
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Not Detected
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.219 µg/L (J)	0.217 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	Not Detected
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.526 µg/L	0.322 mg/L (J)	< 0.526 mg/L	0.287 mg/L (J)	< 0.255 mg/L	< 0.255 mg/L	< 0.255 mg/L	< 0.255 mg/L	Not Detected
Fluoranthene	< 0.013 - 0.102 µg/L	26 µg/L	n/a †	0.074 µg/L (J)	0.066 µg/L (J)	0.044 µg/L (J)	< 0.033 µg/L	0.1 µg/L (J)	< 0.033 µg/L	0.09 µg/L (J)	0.144 µg/L	Not Detected
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.041 µg/L	< 0.120 µg/L	< 0.041 µg/L	0.054 µg/L (J)	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	0.441 µg/L	Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS000 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water Risk Based Exposure Limit Available  
‡ No Contact Recreation PCL available  
(R) QC Requested for unreliable result  
(J) Quantitative is approximate

South 4 Group Fire  
Surface Water Screening Values - December 8, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS006		WS014		WS015		WS017		WS021		Detection Color Code
				PNTX1206X008A	PNTX1206X008B	PNTX1206X014	PNTX1206X015E	PNTX1206X015A	PNTX1206X015B	PNTX1206X017	PNTX1206X021			
				Level 2 Verified										
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	< 22 µg/L	1,230 µg/L (J)	< 12 µg/L	< 12 µg/L	< 12 µg/L						
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 22 µg/L	< 12 µg/L	< 12 µg/L								
Acenaphthene	< 0.019 - < 1 µg/L	50 µg/L	2440 µg/L	< 0.13 µg/L	0.8 µg/L	< 0.03 µg/L	< 0.03 µg/L	< 0.06 µg/L (J)	< 0.06 µg/L (J)	< 0.03 µg/L	< 0.03 µg/L	< 0.03 µg/L	< 0.03 µg/L	
Acenaphthylene	< 0.041 - < 1 µg/L	2 µg/L	3260 µg/L	< 0.13 µg/L	0.8 µg/L	< 0.03 µg/L	0.22 µg/L	0.553 µg/L (J)	0.76 µg/L	0.76 µg/L	1.91 µg/L	1.16 µg/L (J)		
Acetone	< 0.5 - 1.97 µg/L	n/a †	790000 µg/L	0.7 + > A	34.3 + > A	2.46 µg/L (J)	< 11 µg/L	1.8 µg/L	< 1.7 µg/L	1.7 µg/L	2.5 µg/L	70 µg/L		
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	43 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	
Aniline	< 0.5 - 0.785 µg/L	n/a †	4630 µg/L	< 0.781 µg/L	< 0.781 µg/L	< 0.781 µg/L	< 0.781 µg/L	1.3 µg/L	< 0.781 µg/L	< 0.781 µg/L	< 0.781 µg/L	< 0.781 µg/L	< 0.781 µg/L	
Anthracene	< 0.041 - < 0.5 µg/L	1317 µg/L	10700 µg/L	< 0.04 µg/L	0.317 µg/L	< 0.04 µg/L	0.15 µg/L	0.154 µg/L (J)	< 0.1 µg/L	< 0.03 µg/L	< 0.03 µg/L	< 0.03 µg/L	< 0.03 µg/L	
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	2.6 µg/L (J)	< 0.1 µg/L	2.73 µg/L (J)	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	
Benzidine	< 1 - 2.63 µg/L	0.207 µg/L	0.156 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	
Benzo(a)anthracene	< 0.025 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	0.065 µg/L (J)	0.091 µg/L (J)	0.047 µg/L (J)	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	
Benzo(a)pyrene	< 0.013 - 0.073 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.057 µg/L (J)	0.074 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	< 0.019 µg/L	< 0.019 µg/L	0.059 µg/L (J)	0.075 µg/L (J)	< 0.019 µg/L	< 0.019 µg/L	< 0.019 µg/L	< 0.019 µg/L	< 0.019 µg/L	
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.041 µg/L (J)	0.053 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	n/a †	n/a †	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L								
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.52 µg/L	
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	1.61 µg/L (J)	< 0.5 µg/L	1.82 µg/L (J)	1.8 µg/L (J)	< 0.5 µg/L	< 0.5 µg/L					
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.55 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.446 µg/L (J)	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	
Bromobenzene	< 0.2 - < 0.2 µg/L	4600 µg/L	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L								
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	1.05 µg/L (J)	1.05 µg/L (J)	< 0.2 µg/L	1.07 µg/L (J)	0.929 µg/L (J)	< 0.2 µg/L					
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	502 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 105 µg/L	< 105 µg/L	< 105 µg/L								
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L								
Carbon tetrachloride	< 0.25 - < 0.5 µg/L	46 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L								
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	24.9 µg/L	18.5 µg/L	< 0.2 µg/L	2.88 µg/L (J)	3.46 µg/L (J)	3.15 µg/L (J)	23.7 µg/L	15.1 µg/L	< 0.2 µg/L	< 0.2 µg/L	
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L								
Chrysene	< 0.025 - 0.061 µg/L	0.52 µg/L	n/a †	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	0.086 µg/L (J)	0.09 µg/L (J)	0.046 µg/L (J)	0.053 µg/L (J)	0.053 µg/L (J)	< 0.025 µg/L	< 0.025 µg/L	
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4160 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.23 µg/L	< 0.2 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L								
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0313 µg/L	n/a †	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L								
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	235 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.521 µg/L	
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.265 µg/L	< 0.265 µg/L	< 0.265 µg/L	< 0.265 µg/L	< 0.265 µg/L	< 0.265 µg/L	< 0.265 µg/L	< 0.265 µg/L	< 0.265 µg/L	< 0.265 µg/L	
Fluoranthene	< 0.013 - 0.102 µg/L	26 µg/L	n/a †	< 0.013 µg/L	0.078 µg/L (J)	< 0.013 µg/L	0.458 µg/L (J)	0.553 µg/L (J)	0.553 µg/L (J)	0.044 µg/L (J)	0.044 µg/L (J)	0.044 µg/L (J)	0.044 µg/L (J)	
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	0.77 µg/L	1.21 µg/L	< 0.041 µg/L	0.52 µg/L	0.502 µg/L (J)	0.227 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.  
<sup>2</sup> Range from background samples collected at WS006 and WS009.  
<sup>3</sup> Surface Water Risk Based Exposure Limit.  
<sup>4</sup> Tier 1 Contact Recreation Water PCL.  
† No Surface Water KIEB Available.  
‡ No Contact Recreation PCL available.  
(N) QC Requested for unreliable result.  
(J) Quantitative is approximate.

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

# South 4 Group Fire

Surface Water Screening Values - December 8, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS022
				PNTX1 2020022 Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	31.8 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 125 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	0.022 µg/L (J)
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	0.259 µg/L (J)
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	29.1 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.785 µg/L	n/a †	4630 µg/L	< 0.745 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1317 µg/L	10700 µg/L	< 0.042 µg/L
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	1.49 µg/L (J)
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.65 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L
Benzoic acid	< 0.5 - < 1.87 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.85 µg/L	n/a †	< 0.25 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28800 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	0.772 µg/L (J)
Bromoform	< 0.25 - < 0.25 µg/L	1080 µg/L	4300 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L
C6-C12	< 107 - < 109 µg/L	n/a †	n/a †	765 µg/L (J)
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	0.897 µg/L (J)
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	11.5 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L
Chrysene	< 0.026 - 0.061 µg/L	2.52 µg/L	n/a †	< 0.026 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	< 0.026 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12800 µg/L	881 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.526 µg/L
Fluoranthene	< 0.013 - 0.152 µg/L	26 µg/L	n/a †	< 0.154 µg/L (J)
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	0.085 µg/L (J)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water RSEL Available

‡ No Contact Recreation PCL available

{N} QC rejected for unreliable result

{J} Quantitation is approximate

South 4 Group Fire  
Surface Water Screening Values - December 8, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS001		WS002		WS003		WS004	
				PNTX1208X003A	PNTX1208X003B	PNTX1208Y002A	PNTX1208Y002B	PNTX1208Y003A	PNTX1208Y003B	PNTX1208X004A	PNTX1208X004B
				Level 2 Verified							
Hexachlorobenzene	< 0.5 - 0.526 µg/L	0.79046 µg/L	n/a †	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 1.6 µg/L	< 1.6 µg/L	< 1.53 µg/L	< 1.53 µg/L	< 1.53 µg/L	< 1.53 µg/L	< 1.53 µg/L	< 1.53 µg/L
Hexachloroethane	< 0.5 - 0.526 µg/L	2.33 µg/L	n/a †	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.098 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	0.05 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L				
Isophorone	< 0.5 - 0.526 µg/L	19000 µg/L	10400 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.8 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.25 - 0.278 µg/L	n/a †	19500 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L	< 0.23 µg/L
m,p-Xylene	< 0.2 - 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.422 µg/L (J)	0.616 µg/L (J)	< 0.2 µg/L	0.559 µg/L (J)
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 2.12 µg/L	13033 µg/L	3370 µg/L	< 2.1 µg/L	< 2.1 µg/L	< 2.1 µg/L	< 2.1 µg/L	< 2.1 µg/L	< 2.1 µg/L	< 2.1 µg/L	< 2.1 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.526 µg/L	60 µg/L	421 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2950 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.026 µg/L (J)	0.041 µg/L (J)	0.225 µg/L	0.202 µg/L	0.285 µg/L	0.497 µg/L	0.202 µg/L	0.571 µg/L
Nitrobenzene	< 0.5 - 0.526 µg/L	1872 µg/L	248 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19900 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
o-Xylene	< 0.2 - 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - 14600 µg/L	n/a †	n/a †	< 1.8 mg/L	1.7 mg/L (J)	< 1.8 mg/L	2.8 mg/L (J)	1.9 mg/L (J)	4 mg/L (J)	1.5 mg/L	2.3 mg/L (J)
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L
PFHxS	< 1.37 - 1.64 mg/L	n/a †	n/a †	< 1.3 mg/L	2.0 mg/L						
PFOA	< 1.5 - 1.85 mg/L	n/a †	n/a †	< 1.5 mg/L	6.55 mg/L (J)	< 1.5 mg/L	17.2 mg/L	< 1.5 mg/L	26.4 mg/L	< 1.5 mg/L	15.9 mg/L
PFOS	< 1.42 - 6 mg/L	n/a †	n/a †	< 1.4 mg/L	40.8 mg/L	< 1.4 mg/L	1.8 mg/L	< 1.4 mg/L	12.9 mg/L	< 1.4 mg/L	141 mg/L
Phenanthrene	< 0.013 - 0.048 µg/L	n/a †	1070 µg/L	0.074 µg/L (J)	0.057 µg/L (J)	0.085 µg/L (J)	0.033 µg/L (J)	0.279 µg/L	0.106 µg/L	0.293 µg/L	0.10 µg/L
Phenol	< 0.5 - 0.558 µg/L	300000 µg/L	160000 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Pyrene	< 0.026 - 0.037 µg/L	30 µg/L	n/a †	0.101 µg/L (J)	0.082 µg/L (J)	0.091 µg/L (J)	< 0.026 µg/L	0.1 µg/L (J)	0.076 µg/L (J)	< 0.026 µg/L	0.127 µg/L
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	717 µg/L	< 1.6 µg/L	< 1.6 µg/L	< 1.53 µg/L	< 1.53 µg/L	< 1.53 µg/L	< 1.53 µg/L	< 1.53 µg/L	< 1.53 µg/L
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.8 µg/L	n/a †	29600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	2.68 µg/L (J)	2.37 µg/L (J)	9.15 µg/L	11.92 µg/L	8.24 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
tert-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	148 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Total Organic Carbon	< 500 - 3350 µg/L	n/a †	n/a †	18 mg/L	14.8 mg/L	33.4 mg/L	22.2 mg/L	54 mg/L	71 mg/L	43.1 mg/L	< 15 mg/L
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	< 1.05 µg/L	< 1.05 µg/L	< 1.17 µg/L	< 1.17 µg/L	< 1.06 µg/L	222 µg/L (J)	< 1.06 µg/L	1.710 µg/L (J)
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.2 µg/L	n/a †	230 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L							
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	600000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 0.1 µg/L	11.3 µg/L	35.5 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	0.422 µg/L (J)	0.616 µg/L (J)	< 0.4 µg/L	0.559 µg/L (J)

Detection Color Code  
 ■ Detected  
 ■ Detected Below RL  
 ■ Not Detected  
 ■ QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

! No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

# South 4 Group Fire

Surface Water Screening Values - December 8, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS006		WS014		WS015		WS017	WS021
				PNTX1208X008A	PNTX1208X008B	PNTX1208X014	PNTX1208X015E	PNTX1208X015A	PNTX1208X015B	PNTX1209X017	PNTX1209X021
				Level 2 Verified							
Hexachlorobenzene	<0.5 - 0.526 µg/L	0.00045 µg/L	n/a †	<0.521 µg/L	<0.526 µg/L	<0.521 µg/L					
Hexachlorobutadiene	<0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	<0.521 µg/L	<0.526 µg/L	<0.521 µg/L					
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	255 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L	<1.58 µg/L
Hexachloroethane	<0.5 - 0.526 µg/L	0.233 µg/L	n/a †	<0.521 µg/L	<0.526 µg/L	<0.521 µg/L					
Indeno(1,2,3-cd)pyrene	<0.013 - 0.098 µg/L	0.013 µg/L	n/a †	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	0.028 µg/L (J)	0.052 µg/L (J)	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L
Isophorone	<0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	<0.521 µg/L	<0.526 µg/L	<0.521 µg/L					
Isopropylbenzene (Cumene)	<0.2 - 0.8 µg/L	n/a †	8440 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L
m,p-Cresol	<0.25 - 0.278 µg/L	n/a †	19500 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L	<0.278 µg/L
m,p-Xylene	<0.2 - 0.8 µg/L	n/a †	n/a †	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	0.347 µg/L (J)	1.06 µg/L (J)	1.15 µg/L (J)	<0.8 µg/L	<0.8 µg/L
Methyl iodide	<0.5 - 0.5 µg/L	n/a †	670 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Methylene chloride	<0.2 - 2.12 µg/L	13000 µg/L	3370 µg/L	<2.12 µg/L	<2.12 µg/L	<2.12 µg/L	<2.12 µg/L	<2.12 µg/L	<2.12 µg/L	<2.12 µg/L	<2.12 µg/L
n-Butylbenzene	<0.2 - 0.7 µg/L	n/a †	1600 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L
n-Nitrosodi-n-propylamine	<0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	<0.521 µg/L	<0.526 µg/L	<0.521 µg/L					
n-Nitrosodimethylamine	<0.5 - 0.526 µg/L	50 µg/L	0.952 µg/L	<0.521 µg/L	<0.526 µg/L	<0.521 µg/L					
n-Nitrosodiphenylamine	<0.5 - 0.526 µg/L	60 µg/L	421 µg/L	<0.521 µg/L	<0.526 µg/L	<0.521 µg/L					
n-Propylbenzene	<0.5 - 1 µg/L	n/a †	2950 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
Naphthalene	<0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.509 µg/L	1.221 µg/L	<0.013 µg/L	0.681 µg/L	0.905 µg/L (J)	0.459 µg/L	0.358 µg/L	0.282 µg/L (J)
Nitrobenzene	<0.5 - 0.526 µg/L	1672 µg/L	248 µg/L	<0.521 µg/L	<0.526 µg/L	<0.521 µg/L					
o-Cresol	<0.5 - 0.5 µg/L	n/a †	19500 µg/L	<0.521 µg/L	<0.526 µg/L	<0.521 µg/L					
o-Xylene	<0.2 - 0.8 µg/L	n/a †	227000 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	0.527 µg/L (J)	0.529 µg/L (J)	0.649 µg/L (J)	<0.8 µg/L	<0.8 µg/L
Oil and Grease	<1500 - 1600 µg/L	n/a †	n/a †	3.5 mg/L (J)	4.1 mg/L (J)	<1.5 mg/L	2.6 mg/L (J)	<1.5 mg/L	2 mg/L (J)	4.3 mg/L (J)	2.1 mg/L (J)
Pentachlorophenol	<0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L
PFHxS	<1.37 - 1.64 ng/L	n/a †	n/a †	22.3 ng/L	23.3 ng/L	1.37 ng/L	22.8 ng/L	22.8 ng/L	20.4 ng/L	20.6 ng/L	20.6 ng/L
PFOA	<1.5 - 1.85 ng/L	n/a †	n/a †	16.7 ng/L	11.9 ng/L	1.63 ng/L (J)	7.38 ng/L (J)	13.7 ng/L	7.18 ng/L (J)	25.1 ng/L	91.8 ng/L
PFOS	<1.42 - 6 ng/L	n/a †	n/a †	173 ng/L	108 ng/L (J)	3.55 ng/L (J)	253 ng/L	493 ng/L	255 ng/L	113 ng/L	174 ng/L
Phenanthrene	<0.013 - 0.098 µg/L	n/a †	1070 µg/L	<0.013 µg/L	0.128 µg/L	<0.013 µg/L	0.613 µg/L (J)	0.619 µg/L (J)	0.433 µg/L (J)	<0.013 µg/L	0.167 µg/L (J)
Phenol	<0.5 - 0.558 µg/L	300000 µg/L	160000 µg/L	<0.558 µg/L	<0.558 µg/L	<0.558 µg/L	<0.558 µg/L	<0.558 µg/L	<0.558 µg/L	<0.558 µg/L	<0.558 µg/L
Pyrene	<0.026 - 0.087 µg/L	30 µg/L	n/a †	<0.026 µg/L	0.076 µg/L (J)	<0.026 µg/L	0.402 µg/L	0.505 µg/L (J)	0.391 µg/L	0.041 µg/L (J)	0.049 µg/L (J)
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	<1.56 µg/L	<1.56 µg/L	<1.56 µg/L	<1.56 µg/L	<1.56 µg/L	<1.56 µg/L	<1.56 µg/L	<1.56 µg/L
sec-Butylbenzene	<0.2 - 0.8 µg/L	n/a †	1950 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L
Styrene	<0.2 - 0.8 µg/L	n/a †	29600 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	1.58 µg/L (J)	1.71 µg/L (J)	2.11 µg/L (J)	<0.8 µg/L	<0.8 µg/L
tert-Butyl methyl ether (MTBE)	<0.2 - 0.8 µg/L	10462 µg/L	5470 µg/L	<0.8 µg/L	7.79 µg/L	<0.8 µg/L	86.3 µg/L	40.9 µg/L	89.3 µg/L	8.72 µg/L	3.51 µg/L
tert-Butylbenzene	<0.2 - 0.8 µg/L	n/a †	1400 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L
Tetrachloroethene	<0.2 - 0.6 µg/L	280 µg/L	148 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L
Toluene	<0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L
Total Organic Carbon	<500 - 3350 µg/L	n/a †	n/a †	17.8 mg/L	11.8 mg/L	13.4 mg/L	16.8 mg/L	32.3 mg/L	35.7 mg/L	56.7 mg/L	52.3 mg/L
Total TPH (C6-C9)	<107 - 1103 µg/L	n/a †	n/a †	<105 µg/L	1.280 µg/L (J)	<105 µg/L					
trans-1,2-Dichloroethene	<0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L
trans-1,3-Dichloropropene	<0.2 - 1 µg/L	n/a †	250 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 µg/L	n/a †	n/a †	<0.5 µg/L							
Trichloroethene	<0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L	<0.7 µg/L
Trichlorofluoromethane	<0.2 - 0.8 µg/L	n/a †	43300 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L
Trichlorotrifluoroethane	<0.2 - 0.2 µg/L	n/a †	600000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl acetate	<0.2 - 0.2 µg/L	n/a †	748000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl chloride	<0.2 - 1 µg/L	11.3 µg/L	16.5 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
Xylene (total)	<0.4 - 1 µg/L	n/a †	24000 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	1.47 µg/L (J)	1.62 µg/L (J)	1.8 µg/L (J)	<1 µg/L	<1 µg/L

**Detection Color Code**

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS006 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water DSEL Available  
‡ No Contact Recreation PCL available  
(J) QC Rejected for unreliable result  
(J) Quantization is approximate

# South 4 Group Fire

Surface Water Screening Values - December 8, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS022
				PNTX1208M022 Level 2 Verified
Hexachlorobenzene	< 0.5 - 0.526 µg/L	0.00046 µg/L	n/a †	< 0.5 µg/L
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	259 µg/L	< 1.5 µg/L
Hexachloroethane	< 0.5 - 0.526 µg/L	2.33 µg/L	n/a †	< 0.5 µg/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.088 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L
Isophorone	< 0.5 - 0.526 µg/L	1600 µg/L	10400 µg/L	< 0.5 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.6 µg/L	n/a †	2440 µg/L	1.52 µg/L (J)
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	1950 µg/L	< 0.25 µg/L
m,p-Xylene	< 0.2 - 0.2 µg/L	n/a †	n/a †	1.21 µg/L (J)
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 2.12 µg/L	13333 µg/L	3370 µg/L	< 0.2 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1200 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	< 0.5 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.526 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2550 µg/L	< 1 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.691 µg/L (J)
Nitrobenzene	< 0.5 - 0.526 µg/L	1673 µg/L	248 µg/L	< 0.5 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.5 µg/L
o-Xylene	< 0.2 - 0.2 µg/L	n/a †	22700 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a †	8.3 mg/L
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	< 0.5 µg/L
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	4.13 ng/L
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	< 1.5 ng/L
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	< 1.42 ng/L
Phenanthrene	< 0.013 - 0.088 µg/L	n/a †	1070 µg/L	0.25 µg/L (J)
Phenol	< 0.5 - 0.558 µg/L	200000 µg/L	160000 µg/L	< 0.5 µg/L
Pyrene	< 0.026 - 0.087 µg/L	30 µg/L	n/a †	0.242 µg/L (J)
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	71.7 µg/L	< 1.5 µg/L
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1950 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.8 µg/L	n/a †	29600 µg/L	97.1 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	0.4 µg/L
tert-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	148 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	1.01 µg/L (J)
Total Organic Carbon	< 570 - 3350 µg/L	n/a †	n/a †	130 mg/L
Total TPH (C6-C9)	< 107 - 4103 µg/L	n/a †	n/a †	2.950 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 1 µg/L	n/a †	250 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	49300 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	600000 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	1.21 µg/L (J)

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

# South 4 Group Fire

Surface Water Screening Values - December 9, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS001	WS002	WS003	WS004	WS006	WS010	WS014	WS025
				PNTX1209X001A Level 2 Verified	PNTX1209X002A Level 2 Verified	PNTX1209X003A Level 2 Verified	PNTX1209X004A Level 2 Verified	PNTX1209X006A Level 2 Verified	PNTX1209X010 Level 2 Verified	PNTX1209X014 Level 2 Verified	PNTX1209X015A Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.04 µg/L	0.137 µg/L	4.14 µg/L	2.69 µg/L	4.19 µg/L	0.068 µg/L (J)	<0.04 µg/L	0.245 µg/L (J)
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48800 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.74 µg/L	35500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.9 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	32.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	130 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L				
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.9 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	0.221 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	9.52 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	0.397 µg/L (J)	<0.5 µg/L	0.741 µg/L (J)	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	536 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.9 µg/L	n/a †	3050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	190 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.9 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	<0.2 µg/L	8.46 µg/L	7.42 µg/L	7.74 µg/L	7.27 µg/L (J)	<0.2 µg/L	10 µg/L
2-Chloroethyl vinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	1 µg/L (P)	1 µg/L (P)	1 µg/L (Q)	1 µg/L (Q)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	5480 µg/L	1000 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.9 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.9 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.04 µg/L	0.075 µg/L (J)	1.89 µg/L	0.965 µg/L	1.65 µg/L	0.057 µg/L (J)	<0.04 µg/L	0.27 µg/L (J)
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.9 µg/L	n/a †	686 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.9 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	360 µg/L	1270 µg/L	<1.11 µg/L	<1.11 µg/L	<1.11 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.9 µg/L	1867 µg/L	14000 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.9 µg/L	29 µg/L	485 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.526 µg/L	2000 µg/L	820 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.005 µg/L	<0.005 µg/L	<0.01 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.526 µg/L	<0.526 µg/L	<0.526 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.526 µg/L	<0.5 µg/L
4-Chlorotoluene	<0.2 - <0.9 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.9 µg/L	n/a †	3790 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.9 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.518 µg/L	n/a †	966 µg/L	<1.11 µg/L	<1.11 µg/L	<1.11 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<1.11 µg/L	<1.11 µg/L	<1.11 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L
4,6-Dinitro-2-methylphenol	<0.5 - <1.67 µg/L	30 µg/L	30 µg/L	<1.11 µg/L	<1.11 µg/L	<1.11 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L	<1.5 µg/L

**Detection Color Code**

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS009 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water RISE Available

‡ No Contact Recreation PCL Available

(R) QC Rejected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 9, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS017
				PNTX1206M017 Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	2.31 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.5 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36500 µg/L	<0.2 µg/L
1,1-Dichloropropane	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	31.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	35.9 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.1 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.5 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	130 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	650 µg/L	<0.5 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L
1,2Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.1 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9750 µg/L	<0.5 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.1 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3050 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	190 µg/L	<0.5 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	0.34 µg/L (A)
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (B)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1550 µg/L	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	0.23 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	156 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	730 µg/L	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	300 µg/L	1270 µg/L	<1.5 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	1400 µg/L	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	455 µg/L	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.1 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2120 µg/L	<0.1 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.53 µg/L	n/a †	966 µg/L	<0.5 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<1.5 µg/L
4,6-Dinitro-2-methylphenol	<0.5 - <1.67 µg/L	30 µg/L	1100 µg/L	<1.67 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC rejected for unreliable result

(A) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 9, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS001	WS002	WS003	WS004	WS006	WS010	WS014	WS015
				PNTX1209K001A Level 2 Verified	PNTX1209K002A Level 2 Verified	PNTX1209K003A Level 2 Verified	PNTX1209N004A Level 2 Verified	PNTX1209K006A Level 2 Verified	PNTX1209K0010 Level 2 Verified	PNTX1209K0014 Level 2 Verified	PNTX1209K0015A Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a ‡	n/a ‡	< 124 µg/L	626 µg/L (J)	1,840 µg/L (J)	< 10 µg/L	< 2,100 µg/L (J)	< 10 µg/L	< 104 µg/L	< 121 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a ‡	n/a ‡	< 124 µg/L	< 124 µg/L	< 124 µg/L	< 124 µg/L	< 2 µg/L	< 22 µg/L	< 121 µg/L	< 121 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.025 µg/L	< 0.025 µg/L	3.04 µg/L	< 0.02 µg/L	0.024 µg/L (J)	< 0.018 µg/L	< 0.018 µg/L	0.055 µg/L (J)
Acenaphthylene	< 0.041 - < 1 µg/L	n/a ‡	n/a ‡	0.041 µg/L (J)	0.077 µg/L	1.91 µg/L	1.71 µg/L	1.8 µg/L	0.197 µg/L (J)	< 0.041 µg/L	0.682 µg/L (J)
Acetone	< 0.5 - 1.97 µg/L	n/a ‡	790000 µg/L	< 0.5 µg/L	< 0.5 µg/L	21.4 µg/L	27 µg/L	12 µg/L	19 µg/L	2.53 µg/L (J)	9.57 µg/L
Acrolein	< 2 - < 2.5 µg/L	400 µg/L	425 µg/L	< 2 µg/L	< 2 µg/L	< 2 µg/L	< 2 µg/L	< 2 µg/L	< 2 µg/L	< 2 µg/L	< 2 µg/L
Acrylonitrile	< 1 - < 1 µg/L	n/a ‡	115 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.5 - 0.789 µg/L	n/a ‡	4630 µg/L	< 0.5 µg/L	< 0.5 µg/L	0.46 µg/L	0.38 µg/L	0.39 µg/L	0.76 µg/L (J)	< 0.5 µg/L	< 0.789 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.04 µg/L	< 0.04 µg/L	0.4 µg/L	0.27 µg/L	0.27 µg/L	< 0.04 µg/L	< 0.04 µg/L	0.113 µg/L (J)
Benzene	< 0.2 - < 0.2 µg/L	561 µg/L	235 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.345 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	0.689 µg/L (J)	< 0.2 µg/L	0.26 µg/L (J)
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 1 µg/L	< 1 µg/L	< 2.63 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 2.63 µg/L
Benzo(a)anthracene	< 0.025 - 0.077 µg/L	0.025 µg/L	n/a ‡	< 0.025 µg/L	< 0.025 µg/L	0.036 µg/L (J)	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L	0.056 µg/L (J)
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L	0.026 µg/L (J)	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	0.036 µg/L (J)
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a ‡	< 0.019 µg/L	< 0.019 µg/L	0.022 µg/L (J)	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	0.043 µg/L (J)
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a ‡	n/a ‡	< 0.013 µg/L	0.029 µg/L (J)						
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a ‡	< 0.026 µg/L							
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a ‡	1880000 µg/L	< 0.5 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.53 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a ‡	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	0.53 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a ‡	12 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L	0.51 µg/L	0.51 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.83 µg/L	25.9 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	0.51 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.93 µg/L	n/a ‡	< 0.25 µg/L	< 0.263 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.263 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a ‡	4600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 1.1 µg/L	n/a ‡	28600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.696 µg/L (J)	0.36 µg/L (J)	0.945 µg/L (J)	2.11 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1080 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	562 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.263 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.263 µg/L
CG-C12	< 107 - < 109 µg/L	n/a ‡	n/a ‡	< 107 µg/L	< 109 µg/L	< 107 µg/L	< 109 µg/L				
Carbazole	< 0.5 - 0.526 µg/L	n/a ‡	n/a ‡	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a ‡	n/a ‡	< 0.2 µg/L	0.996 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L				
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a ‡	< 0.25 µg/L	< 0.6 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.6 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a ‡	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	1.63 µg/L (J)	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	18.7 µg/L	12.9 µg/L	< 0.2 µg/L	< 0.2 µg/L	2.6 µg/L (J)
Chloromethane	< 0.2 - < 0.7 µg/L	n/a ‡	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.025 - 0.061 µg/L	2.32 µg/L	n/a ‡	< 0.025 µg/L	< 0.025 µg/L	0.031 µg/L (J)	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L	0.059 µg/L (J)
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a ‡	4160 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a ‡	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a ‡	n/a ‡	< 0.25 µg/L	< 0.263 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.263 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a ‡	< 0.026 µg/L							
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a ‡	239 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	363 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a ‡	4960 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a ‡	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.51 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	0.65 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	1771 µg/L	< 0.2 µg/L	4.26 µg/L (J)
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	0.525 mg/L (J)	0.431 mg/L (J)	0.392 mg/L (J)	0.497 mg/L (J)	0.352 mg/L (J)	0.462 mg/L (J)	0.381 mg/L (J)	0.385 mg/L (J)
Fluoranthene	< 0.013 - 0.102 µg/L	20 µg/L	n/a ‡	0.081 µg/L (J)	< 0.013 µg/L	0.339 µg/L	0.335 µg/L	0.072 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	0.336 µg/L (J)
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.04 µg/L	< 0.04 µg/L	1.73 µg/L	1.16 µg/L	1.8 µg/L	0.062 µg/L (J)	< 0.04 µg/L	0.195 µg/L (J)

Detection Color Code  
 ■ Detected  
 ■ Detected Below RL  
 ■ Not Detected  
 ■ QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS000 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
 † No Surface Water KIEEL Available  
 ‡ No Contact Recreation PCL available  
 (N) QC Rejected for unreliable result  
 (J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 9, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS017
				PNTX1206M017 Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	2,000 µg/L (J)
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 0.1 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	7.40 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	4.97 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	1.2 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.789 µg/L	n/a †	4630 µg/L	< 0.745 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	0.017 µg/L
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	< 0.1 µg/L
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.66 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L
Benzoic acid	< 0.5 - < 1.87 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.1 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.89 µg/L	n/a †	< 0.25 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28800 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	0.686 µg/L (J)
Bromoform	< 0.25 - < 0.25 µg/L	1080 µg/L	4300 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 107 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	< 0.2 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L
Chrysene	< 0.026 - 0.061 µg/L	2.52 µg/L	n/a †	< 0.026 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.1 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	< 0.026 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12800 µg/L	< 0.2 µg/L
Ethylene Glycol	< 265 - 7918 µg/L	1680000 µg/L	1840000 µg/L	0.305 mg/L (J)
Fluoranthene	< 0.013 - 0.152 µg/L	26 µg/L	n/a †	< 0.013 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.3 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

{N} QC rejected for unreliable result

{J} Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 9, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCl <sup>4</sup>	WS001	WS002	WS003	WS004	WS006	WS010	WS014	WS015
				PNTX1209X001A Level 2 Verified	PNTX1209X002A Level 2 Verified	PNTX1209X003A Level 2 Verified	PNTX1209X004A Level 2 Verified	PNTX1209X006A Level 2 Verified	PNTX1209X010 Level 2 Verified	PNTX1209X014 Level 2 Verified	PNTX1209X015A Level 2 Verified
Hexachlorobenzene	<0.5 - 0.526 µg/L	0.70046 µg/L	n/A †	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
Hexachlorobutadiene	<0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	256 µg/L	<1.0 µg/L	<1.0 µg/L	<1.0 µg/L	<1.0 µg/L	<1.0 µg/L	<1.0 µg/L	<1.0 µg/L	<1.0 µg/L
Hexachloroethane	<0.5 - 0.526 µg/L	2.33 µg/L	n/A †	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
Indeno(1,2,3-cd)pyrene	<0.013 - 0.098 µg/L	0.013 µg/L	n/A †	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	0.03 µg/L (J)				
Isophorone	<0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
Isopropylbenzene (Cumene)	<0.2 - <0.6 µg/L	n/A †	8440 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	1.87 µg/L (J)	<0.2 µg/L	<0.2 µg/L
m,p-Cresol	<0.25 - <0.276 µg/L	n/A †	19600 µg/L	<0.253 µg/L	<0.253 µg/L	<0.253 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.253 µg/L	<0.253 µg/L
m,p-Xylene	<0.2 - <0.2 µg/L	n/A †	n/A †	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.956 µg/L (J)				
Methyl iodide	<0.5 - <0.5 µg/L	n/A †	670 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Methylene chloride	<0.2 - <2.12 µg/L	13333 µg/L	3370 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Butylbenzene	<0.2 - <0.7 µg/L	n/A †	1600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Nitrosodi-n-propylamine	<0.5 - 0.526 µg/L	9.1 µg/L	1.98 µg/L	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
n-Nitrosodimethylamine	<0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
n-Nitrosodiphenylamine	<0.5 - 0.526 µg/L	60 µg/L	421 µg/L	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
n-Propylbenzene	<0.5 - <1 µg/L	n/A †	2950 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Naphthalene	<0.013 - <2 µg/L	n/A †	2550 µg/L	0.093 µg/L (J)	0.293 µg/L	1.46 µg/L	1.35 µg/L	0.48 µg/L	0.102 µg/L (J)	<0.013 µg/L	0.477 µg/L (J)
Nitrobenzene	<0.5 - 0.526 µg/L	1673 µg/L	248 µg/L	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
o-Cresol	<0.5 - <0.5 µg/L	n/A †	19600 µg/L	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
o-Xylene	<0.2 - <0.2 µg/L	n/A †	227000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.924 µg/L (J)	<0.2 µg/L	0.565 µg/L (J)
Oil and Grease	<1500 - <1600 µg/L	n/A †	n/A ‡	<1.8 mg/L	<1.8 mg/L	8.8 mg/L	3.8 mg/L (J)	4.4 mg/L (J)	14.1 mg/L	11.5 mg/L	2.3 mg/L (J)
Pentachlorophenol	<0.5 - <0.6 µg/L	0.29 µg/L	9.92 µg/L	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
PFHxS	<1.37 - <1.64 mg/L	n/A †	n/A ‡	<1.37 mg/L	<1.37 mg/L	55.1 mg/L	11.1 mg/L	7.89 mg/L	24.1 mg/L	6.54 mg/L (J)	90.2 mg/L
PFOA	<1.5 - 1.85 ng/L	n/A †	n/A ‡	5.98 ng/L (J)	15.9 ng/L	18.1 ng/L	12.7 ng/L	13.7 ng/L	2.22 ng/L (J)	<1.5 ng/L	9.75 ng/L (J)
PFOS	<1.42 - 6 ng/L	n/A †	n/A ‡	8.51 ng/L	347 ng/L	3.74 ng/L	1.98 ng/L	159 ng/L (J)	8.19 ng/L	1.94 ng/L	410 ng/L
Phenanthrene	<0.013 - 0.038 µg/L	n/A †	1070 µg/L	0.091 µg/L (J)	0.09 µg/L (J)	0.582 µg/L	0.776 µg/L	0.066 µg/L	0.217 µg/L (J)	<0.013 µg/L	0.908 µg/L (J)
Phenol	<0.5 - <0.558 µg/L	300000 µg/L	160000 µg/L	<0.505 µg/L	<0.505 µg/L	<0.511 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.501 µg/L	<0.511 µg/L
Pyrene	<0.026 - 0.037 µg/L	30 µg/L	n/A †	<0.026 µg/L	<0.026 µg/L	0.183 µg/L	0.107 µg/L	0.072 µg/L (J)	0.205 µg/L (J)	<0.026 µg/L	0.263 µg/L (J)
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
sec-Butylbenzene	<0.2 - <0.5 µg/L	n/A †	1960 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Styrene	<0.2 - <0.9 µg/L	n/A †	29600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	1.57 µg/L (J)
tert-Butyl methyl ether (MTBE)	<0.2 - <0.2 µg/L	10462 µg/L	6470 µg/L	1.83 µg/L (J)	1.88 µg/L	8.82 µg/L	6.44 µg/L	6.02 µg/L	8.02 µg/L	<0.2 µg/L	31.4 µg/L
tert-Butylbenzene	<0.2 - <0.9 µg/L	n/A †	1400 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Tetrachloroethene	<0.2 - <0.6 µg/L	280 µg/L	148 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Toluene	<0.2 - <0.7 µg/L	1000 µg/L	18500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	1.12 µg/L (J)	<0.2 µg/L	<0.2 µg/L
Total Organic Carbon	<550 - 3350 µg/L	n/A †	n/A ‡	30.1 mg/L	10.9 mg/L	43.5 mg/L	43 mg/L	44.2 mg/L	54.3 mg/L	8.11 mg/L	27.9 mg/L
Total TPH (C6-C9E)	<107 - <103 µg/L	n/A †	n/A ‡	<1.07 µg/L	926 µg/L (J)	1,840 µg/L (J)	2,410 µg/L	2,100 µg/L (J)	269 µg/L (J)	<1.07 µg/L	<1.07 µg/L
trans-1,2-Dichloroethene	<0.2 - <0.6 µg/L	4000 µg/L	6950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,3-Dichloropropene	<0.2 - <1 µg/L	n/A †	250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,4-Dichloro-2-butene	<0.5 - <0.5 µg/L	n/A †	n/A ‡	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L				
Trichloroethene	<0.2 - <0.7 µg/L	71.9 µg/L	1010 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorofluoromethane	<0.2 - <0.2 µg/L	n/A †	49300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorotrifluoroethane	<0.2 - <0.2 µg/L	n/A †	6040000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl acetate	<0.2 - <0.2 µg/L	n/A †	748000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl chloride	<0.2 - <1 µg/L	11.3 µg/L	16.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Xylene (total)	<0.4 - <1 µg/L	n/A †	24000 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	0.924 µg/L (J)	<0.4 µg/L	3.52 µg/L (J)

Detection Color Code

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk-Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water DSEL Available

‡ No Contact Recreation PCL Available

(P) - QC Rejected for unreliable result

(J) Quantization is approximate

# South 4 Group Fire

Surface Water Screening Values - December 9, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS017
				PNTX1206M017 Level 2 Verified
Hexachlorobenzene	< 0.5 - 0.526 ug/L	0.0004 ug/L	n/a †	< 0.5 ug/L
Hexachlorobutadiene	< 0.3 - 0.526 ug/L	0.22 ug/L	6.9 ug/L	< 0.5 ug/L
Hexachlorocyclopentadiene	< 1 - 1.58 ug/L	11.6 ug/L	255 ug/L	< 1.5 ug/L
Hexachloroethane	< 0.5 - 0.526 ug/L	2.33 ug/L	n/a †	< 0.5 ug/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.088 ug/L	0.013 ug/L	n/a †	< 0.013 ug/L
Isophorone	< 0.5 - 0.526 ug/L	1600 ug/L	10400 ug/L	< 0.5 ug/L
Isopropylbenzene (Cumene)	< 0.2 - 0.6 ug/L	n/a †	8440 ug/L	< 0.2 ug/L
m,p-Cresol	< 0.25 - 0.276 ug/L	n/a †	19500 ug/L	< 0.25 ug/L
m,p-Xylene	< 0.2 - 0.2 ug/L	n/a †	n/a †	< 0.2 ug/L
Methyl iodide	< 0.5 - 0.5 ug/L	n/a †	670 ug/L	< 0.5 ug/L
Methylene chloride	< 0.2 - 2.12 ug/L	13333 ug/L	3370 ug/L	< 0.5 ug/L
n-Butylbenzene	< 0.2 - 0.7 ug/L	n/a †	1200 ug/L	< 0.2 ug/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 ug/L	5.1 ug/L	1.98 ug/L	< 0.5 ug/L
n-Nitrosodimethylamine	< 0.5 - 0.526 ug/L	50 ug/L	0.962 ug/L	< 0.5 ug/L
n-Nitrosodiphenylamine	< 0.5 - 0.526 ug/L	60 ug/L	421 ug/L	< 0.5 ug/L
n-Propylbenzene	< 0.5 - 1 ug/L	n/a †	2550 ug/L	< 0.5 ug/L
Naphthalene	< 0.013 - 0.2 ug/L	n/a †	2550 ug/L	< 0.013 ug/L
Nitrobenzene	< 0.5 - 0.526 ug/L	1672 ug/L	248 ug/L	< 0.5 ug/L
o-Cresol	< 0.5 - 0.5 ug/L	n/a †	19500 ug/L	< 0.5 ug/L
o-Xylene	< 0.2 - 0.2 ug/L	n/a †	227000 ug/L	< 0.2 ug/L
Oil and Grease	< 1500 - 1400 ug/L	n/a †	n/a ‡	0.0 mg/L
Pentachlorophenol	< 0.5 - 0.6 ug/L	0.29 ug/L	9.92 ug/L	< 0.5 ug/L
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	27.4 ng/L
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	15.8 ng/L
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	185 ng/L (J)
Phenanthrene	< 0.013 - 0.088 ug/L	n/a †	1070 ug/L	0.425 ug/L
Phenol	< 0.5 - 0.558 ug/L	200000 ug/L	160000 ug/L	< 0.5 ug/L
Pyrene	< 0.026 - 0.087 ug/L	30 ug/L	n/a †	0.134 ug/L
Pyridine	< 0.5 - 1.56 ug/L	947 ug/L	71.7 ug/L	< 1.5 ug/L
sec-Butylbenzene	< 0.2 - 0.5 ug/L	n/a †	1950 ug/L	< 0.2 ug/L
Styrene	< 0.2 - 0.8 ug/L	n/a †	29600 ug/L	< 0.2 ug/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 ug/L	10462 ug/L	5470 ug/L	< 0.2 ug/L
tert-Butylbenzene	< 0.2 - 0.5 ug/L	n/a †	1400 ug/L	< 0.2 ug/L
Tetrachloroethene	< 0.2 - 0.6 ug/L	280 ug/L	148 ug/L	< 0.2 ug/L
Toluene	< 0.2 - 0.7 ug/L	1000 ug/L	16500 ug/L	< 0.2 ug/L
Total Organic Carbon	< 500 - 3350 ug/L	n/a †	n/a ‡	< 1.6 mg/L
Total TPH (C6-C9)	< 107 - 4103 ug/L	n/a †	n/a ‡	2,000 ug/L (J)
trans-1,2-Dichloroethene	< 0.2 - 0.6 ug/L	4000 ug/L	6950 ug/L	< 0.2 ug/L
trans-1,3-Dichloropropene	< 0.2 - 1 ug/L	n/a †	250 ug/L	< 0.2 ug/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 ug/L	n/a †	n/a †	< 0.5 ug/L
Trichloroethene	< 0.2 - 0.7 ug/L	71.9 ug/L	1010 ug/L	< 0.2 ug/L
Trichlorofluoromethane	< 0.2 - 0.2 ug/L	n/a †	43300 ug/L	< 0.2 ug/L
Trichlorotrifluoroethane	< 0.2 - 0.2 ug/L	n/a †	600000 ug/L	< 0.2 ug/L
Vinyl acetate	< 0.2 - 0.2 ug/L	n/a †	748000 ug/L	< 0.2 ug/L
Vinyl chloride	< 0.2 - 1 ug/L	16.5 ug/L	11.3 ug/L	< 0.2 ug/L
Xylene (total)	< 0.4 - 1 ug/L	n/a †	24000 ug/L	< 0.4 ug/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WSO00 and WSO09

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water DISEL Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

# South 4 Group Fire

Surface Water Screening Values - December 10, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003		WS006	WS009	WS016	WS017
				PNTX1210X002	PNTX1210V003	PNTX1210X003	PNTX1210X006	PNTX1210Y009	PNTX1210X016	PNTX1210X017
				Level 2 Verified						
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.041 µg/L	2.35 µg/L	2.33 µg/L	<0.041 µg/L	<0.045 µg/L	NA	<0.041 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	25.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	254 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	NA	<0.4 µg/L				
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	9.57 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L	NA	<0.5 µg/L				
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
2-Butanone	<0.2 - <0.8 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	1.04 µg/L	5.27 µg/L	5.72 µg/L	<0.2 µg/L	NA	5.99 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)	NA	1 µg/L (R)				
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.041 µg/L	0.527 µg/L	0.533 µg/L	<0.041 µg/L	<0.045 µg/L	NA	<0.041 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,4-Dinitrophenol	<0.5 - <1.87 µg/L	360 µg/L	1270 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	NA	<0.5 µg/L				
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	870 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	NA	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	NA	<0.5 µg/L				
4-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	NA	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	1.44 µg/L (J)	<0.2 µg/L	NA	<0.2 µg/L
4-Nitroaniline	<0.8 - 1.58 µg/L	n/a †	966 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	NA	<0.8 µg/L
4-Nitrophenol	<0.8 - <1.67 µg/L	n/a †	1120 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	NA	<0.8 µg/L
4,6-Dinitro-2-methylphenol	<0.8 - <1.67 µg/L	30 µg/L	30 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	NA	<0.8 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(R) QC Rejected for unreliable result

(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 10, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003		WS006	WS009	WS016	WS017
				PNTX1210X002	PNTX1210X003	PNTX1210X006	PNTX1210X009	PNTX1210X016	PNTX1210X017	
				Level 2 Verified						
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	1,120 µg/L (J)	4,200 µg/L	3,400 µg/L	11,700 µg/L	< 114 µg/L	0,180 µg/L	0,000 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 124 µg/L	< 124 µg/L	< 124 µg/L	8,820 µg/L	< 124 µg/L	< 124 µg/L	0,027 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.019 µg/L	0.31 µg/L	0.61 µg/L	0.60 µg/L	< 0.019 µg/L	< 0.019 µg/L	< 0.019 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	n/a †	0.19 µg/L	3.29 µg/L	3.27 µg/L	1.37 µg/L	< 0.041 µg/L	NA	1.97 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	790000 µg/L	5.41 µg/L	14.7 µg/L	14.4 µg/L	< 0.7 µg/L	1.84 µg/L (J)	NA	23.5 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	NA	< 1 µg/L
Aniline	< 0.6 - 0.780 µg/L	n/a †	4630 µg/L	< 0.745 µg/L	< 0.745 µg/L	10.85 µg/L	10.75 µg/L	13.74 µg/L	NA	< 0.745 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.041 µg/L	0.14 µg/L	0.14 µg/L	< 0.16 µg/L	< 0.041 µg/L	NA	0.18 µg/L
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	NA	< 0.1 µg/L
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 0.66 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.026 µg/L	0.045 µg/L (J)	10.016 µg/L	0.047 µg/L (J)	0.077 µg/L (J)	NA	0.111 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	0.056 µg/L (J)	< 0.013 µg/L	0.033 µg/L (J)	0.079 µg/L (J)	NA	0.15 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	0.052 µg/L (J)	< 0.019 µg/L	0.048 µg/L (J)	< 0.019 µg/L	NA	0.11 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L	0.024 µg/L (J)	< 0.013 µg/L	0.041 µg/L (J)	0.062 µg/L (J)	NA	0.101 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	0.044 µg/L	0.051 µg/L (J)	NA	0.027 µg/L (J)
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L				
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	NA	< 0.1 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	10.5 µg/L	10.1 µg/L	10.5 µg/L	NA	< 0.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.55 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.75 µg/L (J)	< 0.25 µg/L	NA	1.21 µg/L (J)
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28600 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.1 µg/L	0.44 µg/L (J)	< 0.1 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7800 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 107 µg/L	< 107 µg/L	< 107 µg/L	< 107 µg/L	< 109 µg/L	< 109 µg/L	2.78 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	NA	< 0.5 µg/L				
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	1.18 µg/L (J)	< 0.2 µg/L	NA	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L	40.08 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	10.25 µg/L	10.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	< 0.2 µg/L	19.4 µg/L	< 0.2 µg/L	16.4 µg/L	< 0.2 µg/L	NA	9.97 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Chrysene	< 0.026 - 0.061 µg/L	2.52 µg/L	n/a †	< 0.026 µg/L	0.029 µg/L (J)	< 0.026 µg/L	0.060 µg/L (J)	0.091 µg/L (J)	NA	0.194 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	NA	< 0.1 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	NA	< 0.25 µg/L				
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	< 0.026 µg/L	NA	< 0.026 µg/L				
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	10.25 µg/L	10.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	NA	< 0.1 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	0.367 µg/L (J)	< 0.2 µg/L	NA	< 0.2 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	0.266 µg/L (J)	< 0.255 µg/L	NA	< 0.255 µg/L
Fluoranthene	< 0.013 - 0.102 µg/L	26 µg/L	n/a †	< 0.013 µg/L	0.155 µg/L	0.077 µg/L (J)	0.063 µg/L (J)	0.102 µg/L (J)	NA	0.111 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.041 µg/L	< 0.041 µg/L	0.075 µg/L	< 0.041 µg/L	< 0.041 µg/L	NA	< 0.041 µg/L

**Detection Color Code**

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS000 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL available  
(R) QC Rejected for unreliable result  
(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 10, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002		WS003		WS006		WS009		WS016		WS017	
				Level 2 Verified		Level 2 Verified		Level 2 Verified		Level 2 Verified		Level 2 Verified		Level 2 Verified	
				PNTK1210V002	PNTK1210V003	PNTK1210V003	PNTK1210V006	PNTK1210V003	PNTK1210X016	PNTK1210X017					
Hexachlorobenzene	< 0.5 - 0.526 µg/L	0.0006 µg/L	n/a †	< 0.5 µg/L	< 0.5 µg/L	10.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
Hexachloroethane	< 0.5 - 0.526 µg/L	0.33 µg/L	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.048 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	0.023 µg/L (J)	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	0.068 µg/L (J)	< 0.01 µg/L	NA	0.047 µg/L (J)	< 0.01 µg/L		
Isophorone	< 0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
Isopropylbenzene (Cumene)	< 0.2 - 0.8 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
m,p-Cresol	< 0.26 - 0.278 µg/L	n/a †	19500 µg/L	< 0.26 µg/L	< 0.26 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	NA	< 0.26 µg/L	< 0.26 µg/L		
m,p-Xylene	< 0.2 - 0.8 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
Methylene chloride	< 0.2 - 0.212 µg/L	13333 µg/L	3370 µg/L	< 0.2 µg/L	< 0.212 µg/L	< 0.212 µg/L	< 0.212 µg/L	< 0.212 µg/L	< 0.212 µg/L	< 0.212 µg/L	NA	< 0.212 µg/L	< 0.212 µg/L		
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1600 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.952 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
n-Nitrosodiphenylamine	< 0.5 - 0.526 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
n-Propylbenzene	< 0.5 - 0.5 µg/L	n/a †	2950 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	< 0.013 µg/L	0.095 µg/L (J)	0.095 µg/L (J)	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	NA	< 0.013 µg/L	< 0.013 µg/L		
Nitrobenzene	< 0.5 - 0.526 µg/L	1873 µg/L	248 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.5 µg/L	< 0.5 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
o-Xylene	< 0.2 - 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a †	1.6 mg/L (J)	< 1.6 mg/L	< 1.6 mg/L	< 1.6 mg/L	< 1.6 mg/L	< 1.6 mg/L	< 1.6 mg/L	NA	< 1.6 mg/L	< 1.6 mg/L		
Pentachlorophenol	< 0.5 - 0.5 µg/L	0.29 µg/L	9.92 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	< 1.37 ng/L	7.13 ng/L	7.13 ng/L	98.7 ng/L	98.7 ng/L	98.7 ng/L	98.7 ng/L	NA	< 1.37 ng/L	< 1.37 ng/L		
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	1.75 ng/L	16.9 ng/L	21 ng/L	12.5 ng/L	12.5 ng/L	12.5 ng/L	12.5 ng/L	NA	< 1.5 ng/L	< 1.5 ng/L		
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	2.8 ng/L	1.52 ng/L	34.1 ng/L	>	>	>	>	NA	>	>		
Phenanthrene	< 0.013 - 0.038 µg/L	n/a †	1070 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.213 µg/L	0.144 µg/L	0.144 µg/L	0.144 µg/L	0.144 µg/L	NA	0.094 µg/L	< 0.013 µg/L		
Phenol	< 0.5 - 0.558 µg/L	200000 µg/L	160000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
Pyrene	< 0.026 - 0.037 µg/L	30 µg/L	n/a †	< 0.026 µg/L	0.176 µg/L	0.081 µg/L (J)	0.12 µg/L	0.087 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L	NA	0.284 µg/L	< 0.026 µg/L		
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	71.7 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Styrene	< 0.2 - 0.8 µg/L	n/a †	29500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	< 0.2 µg/L	4.95 µg/L (J)	4.95 µg/L (J)	4.75 µg/L (J)	4.75 µg/L (J)	4.75 µg/L (J)	4.75 µg/L (J)	NA	< 0.2 µg/L	< 0.2 µg/L		
tert-Butylbenzene	< 0.2 - 0.8 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	148 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Total Organic Carbon	< 550 - 3350 µg/L	n/a †	n/a †	38.4 mg/L	4.4 mg/L	43.3 mg/L	52 mg/L	52 mg/L	52 mg/L	52 mg/L	NA	41.1 mg/L	< 550 µg/L		
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	1,120 µg/L (J)	4,257 µg/L	2,387 µg/L	17,500 µg/L	17,500 µg/L	17,500 µg/L	17,500 µg/L	NA	2,800 µg/L	2,8700 µg/L		
trans-1,2-Dichloroethene	< 0.2 - 0.8 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
trans-1,3-Dichloropropene	< 0.2 - 0.8 µg/L	n/a †	280 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L	< 0.5 µg/L		
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	43500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	600000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Vinyl chloride	< 0.2 - 0.8 µg/L	11.3 µg/L	35.5 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	NA	< 0.2 µg/L	< 0.2 µg/L		
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	NA	< 0.4 µg/L	< 0.4 µg/L		

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS002 and WS003  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
 † No Surface Water DSEL Available  
 ‡ No Contact Recreation PCL available  
 (R) QC Rejected for unreliable result  
 (J) Quantization is approximate

South 4 Group Fire  
Surface Water Screening Values - December 11, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017	WS023	WS024	Detection Color Code
				PNTX1211X002	PNTX1211X003	PNTX1211X006	PNTX1211X009	PNTX1211X010	PNTX1211X017	PNTX1211X023	PNTX1211X024	
				Level 2 Verified								
1-Methylnaphthalene	< 0.041 - < 0.045 µg/L	n/a †	4800 µg/L	< 0.04 µg/L	< 0.04 µg/L	0.273 µg/L (J)	< 0.04 µg/L	Detected				
1,1-Dichloroethane	< 0.2 - < 0.9 µg/L	n/a †	48800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,1-Dichloroethene	< 0.2 - < 1 µg/L	55114 µg/L	35500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,1-Dichloropropene	< 0.2 - < 0.9 µg/L	n/a †	62.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,1,1-Trichloroethane	< 0.2 - < 0.9 µg/L	784354 µg/L	47200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,1,1,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	n/a †	93.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,1,2-Trichloroethane	< 0.2 - < 1 µg/L	325 µg/L	325 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,1,2,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	26.35 µg/L	93.9 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,2-Dibromo-3-chloropropane	< 0.2 - < 1 µg/L	n/a †	11.9 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,2-Dibromoethane	< 0.2 - < 1 µg/L	4.24 µg/L	0.283 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,2-Dichlorobenzene	< 0.2 - 0.526 µg/L	8289 µg/L	11300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,2-Dichloroethane	< 0.2 - < 1 µg/L	264 µg/L	190 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,2-Dichloroethene(Total)	< 0.4 - < 0.4 µg/L	n/a †	n/a †	< 0.4 µg/L	Detected							
1,2-Dichloropropane	< 0.2 - < 0.9 µg/L	259 µg/L	189 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,2,3-Trichloropropane	< 0.2 - < 0.9 µg/L	n/a †	1.71 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,2,4-Trichlorobenzene	< 0.2 - 0.526 µg/L	0.076 µg/L	659 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,2,4-Trimethylbenzene	< 0.2 - < 0.6 µg/L	n/a †	3260 µg/L	< 0.2 µg/L	0.556 µg/L (J)	< 0.2 µg/L	Detected					
1,2Diphenylhydrazine/Azobenzen	< 0.5 - 0.526 µg/L	2 µg/L	9.52 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
1,3-Butadiene	< 0.5 - < 0.9 µg/L	n/a †	n/a †	< 0.5 µg/L	1.1 µg/L (J)	< 0.5 µg/L	< 0.5 µg/L	0.71 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
1,3-Dichlorobenzene	< 0.2 - 0.526 µg/L	539 µg/L	9760 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,3-Dichloropropane	< 0.2 - < 1 µg/L	n/a †	129 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,3,5-Trimethylbenzene	< 0.2 - < 0.6 µg/L	n/a †	9050 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
1,4-Dichlorobenzene	< 0.2 - 0.526 µg/L	990 µg/L	190 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
2-Butanone	< 0.2 - < 0.2 µg/L	932000 µg/L	491000 µg/L	< 0.2 µg/L	4.79 µg/L (J)	4.7 µg/L (J)	< 0.2 µg/L	98.9 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	18.2 µg/L	1 µg/L (P)	Detected							
2-Chloronaphthalene	< 0.5 - 0.526 µg/L	5490 µg/L	1000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
2-Chlorophenol	< 0.5 - < 1 µg/L	800 µg/L	1590 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
2-Chlorotoluene	< 0.2 - < 0.6 µg/L	n/a †	3420 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
2-Hexanone	< 0.5 - < 0.5 µg/L	n/a †	33400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
2-Methylnaphthalene	< 0.041 - < 1 µg/L	n/a †	276 µg/L	0.08 µg/L (J)	< 0.17 µg/L	0.045 µg/L (J)	< 0.04 µg/L	< 0.04 µg/L	0.359 µg/L	< 0.04 µg/L	< 0.04 µg/L	Detected
2-Nitroaniline	< 0.5 - 0.526 µg/L	n/a †	196 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
2-Nitrophenol	< 0.5 - < 0.8 µg/L	n/a †	686 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
2,2-Dichloropropane	< 0.2 - < 0.7 µg/L	n/a †	163 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
2,4-Dichlorophenol	< 0.5 - < 0.7 µg/L	80 µg/L	739 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
2,4-Dimethylphenol	< 0.5 - < 1 µg/L	8436 µg/L	4740 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
2,4-Dinitrophenol	< 0.8 - < 1.87 µg/L	n/a †	600 µg/L	< 0.8 µg/L	< 1.1 µg/L	Detected						
2,4-Dinitrotoluene	< 0.5 - 0.526 µg/L	17 µg/L	30 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
2,4,5-Trichlorophenol	< 0.5 - < 0.6 µg/L	1867 µg/L	14000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
2,4,6-Trichlorophenol	< 0.5 - < 0.6 µg/L	28 µg/L	485 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
2,6-Dinitrotoluene	< 0.5 - 0.526 µg/L	n/a †	30 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
3-Nitroaniline	< 0.5 - 0.526 µg/L	n/a †	177 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
3,3'-Dichlorobenzidine	< 0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
4-Eromopheny phenyl ether	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	Detected							
4-Chloro-3-methylphenol	< 0.5 - < 0.526 µg/L	2000 µg/L	820 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
4-Chloroaniline	< 0.5 - 0.526 µg/L	n/a †	2140 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
4-Chlorophenyl phenyl ether	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	Detected							
4-Chlorotoluene	< 0.2 - < 0.6 µg/L	n/a †	2320 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
4-Isopropyltoluene	< 0.2 - < 0.6 µg/L	n/a †	3700 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
4-Methyl-2-pentanone	< 0.2 - < 0.2 µg/L	n/a †	52700 µg/L	< 0.2 µg/L	< 0.2 µg/L	1.66 µg/L (J)	< 0.2 µg/L	Detected				
4-Nitroaniline	< 0.8 - 1.58 µg/L	n/a †	966 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 1.1 µg/L	Detected					
4-Nitrophenol	< 0.8 - < 1.67 µg/L	n/a †	1120 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	Detected
4,6-Dinitro-2-methylphenol	< 0.6 - < 1.67 µg/L	30 µg/L	30 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS009 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEB Available  
‡ No Contact Recreation PCL available  
(R) QC Rejected for unreliable result  
(J) Quantitative is approximate

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

## South 4 Group Fire

Surface Water Screening Values - December 11, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017	WS023	WS024
				PNTX1211X002	PNTX1211X003	PNTX1211X006	PNTX1211X009	PNTX1211X010	PNTX1211X017	PNTX1211X023	PNTX1211X024
				Level 2 Verified							
>C12-C28	< 124 < 127 µg/L	n/a †	n/a ‡	751 µg/L (J)	20,300 µg/L	79,900 µg/L (J)	< 124 µg/L	< 125 µg/L	180 µg/L (J)	< 104 µg/L	< 124 µg/L
>C28-C35	< 124 < 127 µg/L	n/a †	n/a ‡	< 125 µg/L	5,070 µg/L	22,100 µg/L (J)	< 124 µg/L	< 125 µg/L	< 124 µg/L	< 124 µg/L	< 124 µg/L
Acenaphthene	< 0.019 < 1 µg/L	90 µg/L	2440 µg/L	< 0.333 µg/L	0.0375 µg/L	0.643 µg/L (J)	< 0.263 µg/L	0.025 µg/L (J)	0.220 µg/L	< 0.013 µg/L	< 0.311 µg/L
Acenaphthylene	< 0.041 < 1 µg/L	n/a †	n/a ‡	0.192 µg/L	1.25 µg/L	2.75 µg/L (J)	< 0.242 µg/L	0.164 µg/L (J)	1.42 µg/L	< 0.042 µg/L	< 0.671 µg/L
Acetone	< 0.5 < 1.97 µg/L	n/a †	n/a ‡	790000 µg/L	< 0.46 µg/L	< 0.3 µg/L	< 0.4 µg/L	1.20 µg/L	47 µg/L	1.2 µg/L (J)	1.69 µg/L (J)
Acrolein	< 2 < 2.5 µg/L	400 µg/L	425 µg/L	< 0.9 µg/L	< 0.9 µg/L	< 2.9 µg/L	< 2.0 µg/L	< 2.0 µg/L	< 2.0 µg/L	< 2.5 µg/L	< 2.5 µg/L
Acrylonitrile	< 1 < 1 µg/L	n/a †	n/a ‡	115 µg/L	< 1 µg/L						
Aniline	< 6.6 < 0.789 µg/L	n/a †	n/a ‡	4630 µg/L	< 0.73 µg/L	< 0.73 µg/L	< 0.73 µg/L	< 0.73 µg/L	< 0.73 µg/L	< 0.73 µg/L	< 0.73 µg/L
Anthracene	< 0.041 < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.24 µg/L	0.06 µg/L (J)	0.956 µg/L (J)	< 0.040 µg/L	< 0.041 µg/L	0.23 µg/L	< 0.040 µg/L	< 0.031 µg/L
Benzene	< 0.2 < 0.7 µg/L	591 µg/L	235 µg/L	< 0.1 µg/L	0.473 µg/L (J)	< 0.1 µg/L	< 0.1 µg/L	0.982 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	0.243 µg/L (J)
Benzidine	< 1 < 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.6 µg/L	< 2.5 µg/L						
Benzo(a)anthracene	< 0.026 < 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L	0.037 µg/L (J)	0.153 µg/L (J)	< 0.024 µg/L	< 0.024 µg/L	0.034 µg/L (J)	< 0.023 µg/L	< 0.021 µg/L
Benzo(a)pyrene	< 0.013 < 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	0.020 µg/L (J)	0.205 µg/L (J)	< 0.011 µg/L	< 0.011 µg/L	0.031 µg/L (J)	< 0.010 µg/L	< 0.009 µg/L
Benzo(b)fluoranthene	< 0.019 < 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	0.022 µg/L (J)	0.175 µg/L (J)	< 0.010 µg/L	< 0.010 µg/L	0.023 µg/L (J)	< 0.010 µg/L	< 0.011 µg/L
Benzo(g,h,i)perylene	< 0.013 < 0.062 µg/L	n/a †	n/a ‡	< 0.013 µg/L	0.025 µg/L (J)	0.166 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	0.023 µg/L (J)	< 0.013 µg/L	< 0.011 µg/L
Benzo(k)fluoranthene	< 0.026 < 0.051 µg/L	n/a †	n/a ‡	< 0.026 µg/L	< 0.025 µg/L	0.059 µg/L (J)	< 0.024 µg/L	< 0.024 µg/L	< 0.023 µg/L	< 0.023 µg/L	< 0.021 µg/L
Benzoic acid	< 0.5 < 1.67 µg/L	n/a †	1880000 µg/L	1.78 µg/L (J)	< 0.5 µg/L						
Benzyl alcohol	< 0.5 < 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 < 0.526 µg/L	n/a †	12 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 < 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 < 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 < 0.263 µg/L	7.88 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	1.26 µg/L (J)	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromobenzene	< 0.2 < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L							
Bromochloromethane	< 0.2 < 1.1 µg/L	n/a †	28800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 < 1.1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	3.1 µg/L (J)	0.449 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Bromofom	< 0.25 < 0.25 µg/L	4300 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 < 2 µg/L	10000 µg/L	962 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 < 0.263 µg/L	1 µg/L	7800 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
C6-C12	< 107 < 109 µg/L	n/a †	n/a ‡	< 109 µg/L	< 109 µg/L	884 µg/L (J)	< 109 µg/L				
Carbazole	< 0.5 < 0.526 µg/L	n/a †	n/a ‡	< 0.5 µg/L							
Carbon disulfide	< 0.2 < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L	< 0.2 µg/L	1.42 µg/L (J)	< 0.2 µg/L	1.56 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 < 0.6 µg/L	n/a †	n/a ‡	< 0.25 µg/L							
Chlorobenzene	< 0.2 < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 < 0.7 µg/L	7637 µg/L	2850 µg/L	< 0.2 µg/L	< 0.2 µg/L	9.87 µg/L	< 0.2 µg/L	9.87 µg/L	9.7 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloromethane	< 0.2 < 0.7 µg/L	n/a †	n/a ‡	< 0.2 µg/L							
Chrysene	< 0.026 < 0.061 µg/L	2.32 µg/L	n/a †	< 0.026 µg/L	0.03 µg/L (J)	0.27 µg/L (J)	< 0.024 µg/L	< 0.024 µg/L	0.031 µg/L (J)	< 0.024 µg/L	< 0.021 µg/L
cis-1,2-Dichloroethene	< 0.2 < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 < 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Di-n-octyl phthalate	< 0.25 < 0.263 µg/L	n/a †	n/a ‡	< 0.25 µg/L							
Dibenz(a,h)anthracene	< 0.026 < 0.026 µg/L	0.0113 µg/L	n/a †	< 0.026 µg/L							
Dibenzofuran	< 0.5 < 0.526 µg/L	n/a †	235 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dibromochloromethane	< 0.2 < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 < 1 µg/L	n/a †	4900 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 < 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dimethyl phthalate	< 0.5 < 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Ethylbenzene	< 0.2 < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	0.586 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	71 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Ethylene Glycol	< 265 < 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.526 µg/L	< 0.526 µg/L	< 0.526 µg/L	0.28 mg/L (J)	0.288 mg/L (J)	0.282 mg/L (J)	< 0.285 µg/L	< 0.285 µg/L
Fluoranthene	< 0.013 < 0.102 µg/L	20 µg/L	n/a †	< 0.013 µg/L	0.031 µg/L	0.393 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	0.101 µg/L	< 0.013 µg/L	< 0.011 µg/L
Fluorene	< 0.041 < 1 µg/L	70 µg/L	2110 µg/L	0.087 µg/L (J)	< 0.041 µg/L	0.544 µg/L (J)	< 0.040 µg/L	< 0.040 µg/L	1.29 µg/L	< 0.040 µg/L	< 0.041 µg/L

Detection Color Code

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitation is approximate

# South 4 Group Fire

Surface Water Screening Values - December 11, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017	WS023	WS024
				PNTX1211X002 Level 2 Verified	PNTX1211X003 Level 2 Verified	PNTX1211X006 Level 2 Verified	PNTX1211X009 Level 2 Verified	PNTX1211X010 Level 2 Verified	PNTX1211X017 Level 2 Verified	PNTX1211X023 Level 2 Verified	PNTX1211X024 Level 2 Verified
Hexachlorobenzene	< 0.5 - 0.526 µg/L	0.00045 µg/L	n/a †	< 0.5 µg/L	< 0.5 µg/L	10 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	256 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.58 µg/L
Hexachloroethane	< 0.5 - 0.526 µg/L	2.33 µg/L	n/a †	< 0.5 µg/L	< 0.51 µg/L						
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.098 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	0.02 µg/L (J)	0.071 µg/L (J)	< 0.013 µg/L				
Isophorone	< 0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.6 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.295 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	< 0.25 µg/L	< 0.25 µg/L	10.21 µg/L	< 0.25 µg/L	13.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
m,p-Xylene	< 0.2 - 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	1.15 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	1.01 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 0.2 µg/L	13333 µg/L	3370 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1600 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.21 µg/L	< 0.2 µg/L	10.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.526 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2950 µg/L	< 0.5 µg/L	< 1 µg/L	< 1 µg/L	< 0.5 µg/L	< 1 µg/L	< 0.5 µg/L	< 1 µg/L	< 1 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.063 µg/L (J)	0.055 µg/L (J)	0.109 µg/L (J)	< 0.013 µg/L	0.118 µg/L (J)	0.035 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Nitrobenzene	< 0.5 - 0.526 µg/L	1673 µg/L	248 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.5 µg/L	< 0.5 µg/L	10.21 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
o-Xylene	< 0.2 - 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	0.492 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	0.764 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a †	< 1.5 mg/L							
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
PFHxS	< 1.37 - 1.64 ng/L	n/a †	142 ng/L	< 1.37 ng/L	33.31 ng/L	45.5 ng/L	< 1.37 ng/L	11.37 ng/L	18 ng/L	2.17 ng/L (J)	5.01 ng/L
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	< 1.5 ng/L	30.91 ng/L	16.4 ng/L	< 1.5 ng/L	21.6 ng/L (J)	22.4 ng/L	< 1.5 ng/L	3.1 ng/L (J)
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	< 1.42 ng/L	113 ng/L	151 ng/L (J)	< 1.42 ng/L	494 ng/L	123 ng/L	10.1 ng/L	29.7 ng/L
Phenanthrene	< 0.013 - 0.098 µg/L	n/a †	1070 µg/L	< 0.013 µg/L	0.131 µg/L	0.456 µg/L (J)	< 0.013 µg/L	0.121 µg/L (J)	0.379 µg/L	< 0.013 µg/L	< 0.013 µg/L
Phenol	< 0.5 - 0.558 µg/L	300000 µg/L	160000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Pyrene	< 0.026 - 0.087 µg/L	30 µg/L	n/a †	< 0.026 µg/L	0.197 µg/L	0.517 µg/L (J)	< 0.026 µg/L	0.26 µg/L (J)	0.22 µg/L	< 0.026 µg/L	< 0.026 µg/L
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	717 µg/L	< 0.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 0.5 µg/L	< 1.5 µg/L	< 0.5 µg/L	< 1.5 µg/L	< 1.56 µg/L
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.8 µg/L	n/a †	29500 µg/L	< 0.2 µg/L	0.676 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	1.68 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	< 0.2 µg/L	1.11 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
tert-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	146 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	< 0.2 µg/L	1.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Total Organic Carbon	< 550 - 3350 µg/L	n/a †	n/a †	< 5.5 mg/L	19.2 mg/L	48.2 mg/L	< 5.5 mg/L	6.93 mg/L	49.3 mg/L	32.3 mg/L	7.71 mg/L
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	751 µg/L (J)	23077 µg/L	102,000 µg/L (J)	< 107 µg/L	< 107 µg/L	180 µg/L (J)	< 100 µg/L	< 100 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.3 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L							
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	600000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 1 µg/L	11.3 µg/L	16.5 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	1.64 µg/L (J)	< 0.4 µg/L	< 0.4 µg/L	1.78 µg/L (J)	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L

Detection Color Code

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL Available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

# South 4 Group Fire

Surface Water Screening Values - December 12, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS010	WS017	WS025	WS024
				PNTX1212X002 Level 2 Verified	PNTX1212X003 Level 2 Verified	PNTX1212X006 Level 2 Verified	PNTX1212X010 Level 2 Verified	PNTX1212X017 Level 2 Verified	PNTX1212X025 Level 2 Verified	PNTX1212X024 Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.53 µg/L	0.11 µg/L	0.11 µg/L	0.51 µg/L (J)	0.11 µg/L	<0.04 µg/L	<0.04 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	354 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L						
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L	2.42 µg/L (J)	0.5 µg/L	0.5 µg/L	4.66 µg/L (J)	<0.5 µg/L	<0.5 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	<0.2 µg/L	19.3 µg/L	20.2 µg/L	19.8 µg/L	<0.2 µg/L	<0.2 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	1 µg/L (P)	1 µg/L (P)	1 µg/L (Q)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	5490 µg/L	1000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	0.271 µg/L	0.153 µg/L	0.111 µg/L	<0.04 µg/L	0.096 µg/L (J)	<0.04 µg/L	<0.04 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	12.5 µg/L	12.5 µg/L	12.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	360 µg/L	1270 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	12.5 µg/L	12.5 µg/L	12.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	455 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L (R)	<0.5 µg/L					
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L						
4-Chloro-3-methylphenol	<0.5 - <0.526 µg/L	2000 µg/L	870 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	12.5 µg/L	12.5 µg/L	12.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	12.5 µg/L	12.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	1.08 µg/L (J)	9.18 µg/L (J)	15.1 µg/L	2.26 µg/L (J)	<0.2 µg/L	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.518 µg/L	n/a †	966 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	1.5 µg/L (R)	<0.5 µg/L					
4,6-Dinitro-2-methylphenol	<0.6 - <1.67 µg/L	30 µg/L	30 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS009 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(R) QC Rejected for unreliable result

(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 12, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS010	WS017	WS025	WS024
				PNTX1212X002	PNTX1212X003	PNTX1212X006	PNTX1212X010	PNTX1212X017	PNTX1212X022	PNTX1212X024
				Level 2 Verified						
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	396 µg/L (J)	749 µg/L (J)	43,400 µg/L (J)	< 121 µg/L	1,650 µg/L (J)	< 120 µg/L	< 120 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 124 µg/L	< 124 µg/L	11,800 µg/L (J)	< 122 µg/L	< 123 µg/L	< 120 µg/L	< 123 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 1.0 µg/L	< 0.04 µg/L	0.398 µg/L	0.03 µg/L (J)	0.45 µg/L	< 0.03 µg/L	< 0.03 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	n/a †	0.283 µg/L	0.381 µg/L	1.52 µg/L	0.024 µg/L	1.42 µg/L	< 0.04 µg/L	< 0.04 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	790000 µg/L	7.22 µg/L	< 0.5 µg/L	39 µg/L	< 0.2 µg/L	1.7 µg/L	5.17 µg/L (J)	2.23 µg/L (J)
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L	< 2.0 µg/L	< 2.0 µg/L	< 2.0 µg/L	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.789 µg/L	n/a †	4630 µg/L	< 0.78 µg/L	< 0.78 µg/L	13.75 µg/L	49.4 µg/L (J)	< 0.6 µg/L	< 0.7 µg/L	< 0.78 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.04 µg/L	0.05 µg/L (J)	0.142 µg/L	< 0.04 µg/L	0.118 µg/L	< 0.04 µg/L	< 0.04 µg/L
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.2 µg/L	0.459 µg/L (J)	< 0.2 µg/L	0.589 µg/L (J)	0.239 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	2.5 µg/L (Q)	< 2.5 µg/L					
Benzo(a)anthracene	< 0.025 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L	< 0.025 µg/L	0.043 µg/L (J)	0.026 µg/L (J)	0.041 µg/L (J)	< 0.025 µg/L	< 0.025 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	< 0.013 µg/L	0.036 µg/L (J)	< 0.013 µg/L	0.037 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	< 0.019 µg/L	0.027 µg/L (J)	< 0.019 µg/L	0.025 µg/L (J)	< 0.019 µg/L	< 0.019 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L	< 0.013 µg/L	0.024 µg/L (J)	< 0.013 µg/L	0.025 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L						
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 7.5 µg/L	< 7.0 µg/L	< 7.0 µg/L	< 7.0 µg/L	< 7.5 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L				
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L				
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L				
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L				
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.89 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 2.5 µg/L				
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	0.519 µg/L (J)	< 0.2 µg/L	0.3 µg/L (J)	0.775 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7800 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 0.25 µg/L	< 0.25 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 109 µg/L	< 107 µg/L	380 µg/L (J)	< 109 µg/L	< 109 µg/L	< 109 µg/L	< 109 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L				
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	1.16 µg/L (J)	0.306 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	n/a †	46 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2850 µg/L	< 0.2 µg/L	0.67 µg/L	9.88 µg/L	30.7 µg/L	12.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.025 - 0.061 µg/L	2.52 µg/L	n/a †	< 0.025 µg/L	< 0.025 µg/L	0.028 µg/L (J)	< 0.025 µg/L	0.043 µg/L (J)	< 0.025 µg/L	< 0.025 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4160 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L				
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 1.25 µg/L	< 1.25 µg/L	< 1.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0113 µg/L	n/a †	< 0.026 µg/L						
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	235 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.599 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L				
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L				
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.516 µg/L (J)	1.0 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.0 µg/L	< 2.0 µg/L	< 0.25 µg/L	0.387 µg/L (J)	0.335 µg/L (J)
Fluoranthene	< 0.013 - 0.102 µg/L	26 µg/L	n/a †	< 0.013 µg/L	0.07 µg/L (J)	0.073 µg/L (J)	< 0.013 µg/L	0.08 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	0.055 µg/L (J)	< 0.04 µg/L	0.133 µg/L	0.046 µg/L (J)	0.097 µg/L (J)	< 0.04 µg/L	< 0.04 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 12, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS010	WS017	WS025	WS024
				PNTX1212X002 Level 2 Verified	PNTX1212X003 Level 2 Verified	PNTX1212X006 Level 2 Verified	PNTX1212X010 Level 2 Verified	PNTX1212X017 Level 2 Verified	PNTX1212X025 Level 2 Verified	PNTX1212X024 Level 2 Verified
Hexachlorobenzene	< 0.5 - 0.525 µg/L	0.00045 µg/L	n/a †	< 0.5 µg/L	< 0.5 µg/L	1.2 µg/L	1.2 µg/L	1.2 µg/L	< 0.5 µg/L	< 0.5 µg/L
Hexachlorobutadiene	< 0.3 - 0.525 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Hexachloroethane	< 0.5 - 0.525 µg/L	2.33 µg/L	n/a †	< 0.5 µg/L						
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.048 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L						
Isophorone	< 0.5 - 0.525 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.8 µg/L	n/a †	n/a †	< 0.2 µg/L						
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	< 0.25 µg/L	< 0.25 µg/L	11.2 µg/L	11.2 µg/L	11.2 µg/L	< 0.25 µg/L	< 0.25 µg/L
m,p-Xylene	< 0.2 - 0.8 µg/L	n/a †	n/a †	< 0.2 µg/L						
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 0.212 µg/L	13333 µg/L	3370 µg/L	< 0.2 µg/L	< 0.212 µg/L	< 0.212 µg/L	< 0.212 µg/L	< 0.212 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1600 µg/L	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	13.2 µg/L	13.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.525 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.525 µg/L	50 µg/L	0.952 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.525 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2550 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.150 µg/L	< 0.013 µg/L	0.49 µg/L	0.099 µg/L (J)	0.051 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Nitrobenzene	< 0.5 - 0.525 µg/L	1673 µg/L	248 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.5 µg/L	< 0.5 µg/L	1.2 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
o-Xylene	< 0.2 - 0.8 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.595 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a †	< 1.5 mg/L						
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	191 ng/L	191 ng/L	15 ng/L	< 1.37 ng/L	< 1.37 ng/L	0.15 ng/L (J)	4.35 ng/L (J)
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	55.2 ng/L	55.2 ng/L	17.2 ng/L	9.4 ng/L (J)	18.3 ng/L	1.62 ng/L (J)	1.99 ng/L (J)
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	191 ng/L (J)	152 ng/L (J)	349 ng/L (J)	299 ng/L	127 ng/L (J)	7.56 ng/L (J)	1.32 ng/L
Phenanthrene	< 0.013 - 0.048 µg/L	n/a †	1070 µg/L	< 0.013 µg/L	0.023 µg/L (J)	0.091 µg/L (J)	0.1 µg/L	0.066 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Phenol	< 0.5 - 0.550 µg/L	200000 µg/L	160000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Pyrene	< 0.026 - 0.037 µg/L	30 µg/L	n/a †	< 0.026 µg/L	0.079 µg/L (J)	0.076 µg/L (J)	0.150 µg/L	0.082 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	717 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
sec-Butylbenzene	< 0.2 - 0.8 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.8 µg/L	n/a †	29500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.202 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.8 µg/L	n/a †	10462 µg/L	4.3 µg/L (J)	38 µg/L	35.4 µg/L	33.7 µg/L	47.9 µg/L	< 0.2 µg/L	< 0.2 µg/L
tert-Butylbenzene	< 0.2 - 0.8 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.8 µg/L	280 µg/L	146 µg/L	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	13.2 µg/L	13.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Total Organic Carbon	< 550 - 3350 µg/L	n/a †	n/a †	38.3 mg/L	40 mg/L	43.9 mg/L	25.2 mg/L	39.2 mg/L	7.07 mg/L	7.27 mg/L
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	386 µg/L (J)	749 µg/L (J)	55,600 µg/L (J)	< 176 µg/L	1,650 µg/L (J)	< 107 µg/L	< 107 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	13.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.3 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L						
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - 0.8 µg/L	n/a †	43500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	600000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 1 µg/L	15.5 µg/L	n/a †	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	13.2 µg/L	13.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	0.595 µg/L (J)	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS002 and WS003

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL Available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

South 4 Group Fire  
 Surface Water Screening Values - December 13, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017	WS023	WS024	Detection Color Code
				PNTX1212M002	PNTX1212M003	PNTX1212M006	PNTX1212M009	PNTX1212M010	PNTX1212M017	PNTX1212M023	PNTX1212M024	
				Level 2 Verified								
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.205 µg/L	0.465 µg/L (J)	0.206 µg/L (J)	0.741 µg/L	0.204 µg/L	0.174 µg/L	<0.021 µg/L	<0.031 µg/L	Detected
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,1-Dichloroethene	<0.2 - <1 µg/L	55174 µg/L	36900 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	31.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	25.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	8289 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,2-Dichloroethane	<0.2 - <1 µg/L	354 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	Not Detected							
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	0.269 µg/L (J)	<0.2 µg/L	Not Detected					
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
1,3-Butadiene	<0.5 - <0.5 µg/L	n/a †	n/a †	<0.5 µg/L	2.78 µg/L (J)	<0.5 µg/L	0.11 µg/L	<0.5 µg/L	1.66 µg/L (U)	<0.5 µg/L	<0.5 µg/L	Not Detected
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	29.76 µg/L	29.2 µg/L	<0.2 µg/L	13.8 µg/L	6 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)	Not Detected							
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Not Detected
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	0.099 µg/L (J)	0.438 µg/L (J)	0.15 µg/L (J)	0.741 µg/L	0.204 µg/L	0.155 µg/L	<0.002 µg/L	<0.006 µg/L	Not Detected
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	606 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
2,4-Dinitrophenol	<0.5 - <1.87 µg/L	300 µg/L	1270 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	29 µg/L	485 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.526 µg/L	Not Detected							
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	820 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	1140 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.526 µg/L	Not Detected							
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	2.87 µg/L (J)	3.99 µg/L (J)	<0.2 µg/L	4.41 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
4-Nitroaniline	<0.5 - 1.518 µg/L	n/a †	966 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
4-Nitrophenol	<0.5 - <1.87 µg/L	n/a †	1120 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected
4,6-Dinitro-2-methylphenol	<0.6 - <1.87 µg/L	30 µg/L	30 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	<0.05 µg/L	Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS002 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
 † No Surface Water KIEB Available  
 ‡ No Contact Recreation PCL Available  
 (R) QC Detected for unreliable result  
 (J) Quantitative is approximate

Detection Color Code

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

South 4 Group Fire

Surface Water Screening Values - December 13, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017	WS023	WS024	Detection Color Code
				PNTX1212M002	PNTX1212M003	PNTX1212M006	PNTX1212M009	PNTX1212M010	PNTX1212M017	PNTX1212M023	PNTX1212M024	
				Level 2 Verified								
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	675 µg/L (J)	41,200 µg/L	49,000 µg/L (J)	< 127 µg/L	Detected Below RL				
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 127 µg/L	6,190 µg/L	11,500 µg/L (J)	< 127 µg/L	Detected Below RL				
Acenaphthene	< 0.019 - < 1 µg/L	50 µg/L	2440 µg/L	< 0.27 µg/L	0.384 µg/L (J)	0.473 µg/L (J)	< 0.26 µg/L	Detected				
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	n/a †	0.139 µg/L	1.75 µg/L (J)	0.67 µg/L (J)	< 0.041 µg/L	0.22 µg/L (J)	1.54 µg/L	< 0.041 µg/L	< 0.041 µg/L	Detected
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	0.54 µg/L	14.8 µg/L	70 µg/L	1.97 µg/L (J)	1.25 µg/L	29 µg/L	2.54 µg/L (J)	1.6 µg/L (J)	Detected
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	6.99 µg/L (J)	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	Detected
Aniline	< 6.6 - 0.786 µg/L	n/a †	4630 µg/L	< 0.73 µg/L	< 0.73 µg/L	< 0.73 µg/L	< 0.73 µg/L	7.64 µg/L (J)	< 0.73 µg/L	< 0.73 µg/L	< 0.73 µg/L	Detected
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.04 µg/L	0.494 µg/L (J)	0.09 µg/L (J)	< 0.04 µg/L	< 0.04 µg/L	0.137 µg/L	< 0.04 µg/L	< 0.04 µg/L	Detected
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	< 0.1 µg/L	0.92 µg/L (J)	0.262 µg/L (J)	< 0.1 µg/L	< 0.1 µg/L	0.383 µg/L (J)	< 0.1 µg/L	< 0.1 µg/L	Detected
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	< 2.63 µg/L	Not Detected
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L	0.393 µg/L (J)	< 0.025 µg/L	Detected					
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	0.459 µg/L (J)	< 0.013 µg/L	Detected					
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	0.294 µg/L (J)	< 0.019 µg/L	Detected					
Benzo(g,h,i)perylene	< 0.013 - 0.042 µg/L	n/a †	n/a †	< 0.013 µg/L	0.378 µg/L (J)	< 0.013 µg/L	Detected					
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L	0.11 µg/L (J)	< 0.026 µg/L	Detected					
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.9 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.85 µg/L	n/a †	< 0.25 µg/L	Detected							
Bromobenzene	< 0.2 - < 0.2 µg/L	4600 µg/L	n/a †	< 0.2 µg/L	Detected							
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	0.908 µg/L (J)	0.889 µg/L (J)	< 0.2 µg/L	0.99 µg/L	1.81 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	Detected
Bromofom	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Detected
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	502 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Detected
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 109 µg/L	948 µg/L (J)	< 109 µg/L	< 109 µg/L	402 µg/L (J)	< 109 µg/L	< 109 µg/L	< 109 µg/L	Detected
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	Detected							
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	Detected							
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L	Detected							
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	9.75 µg/L (J)	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Detected
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Chrysene	< 0.026 - 0.061 µg/L	0.12 µg/L	n/a †	< 0.026 µg/L	0.236 µg/L (J)	< 0.026 µg/L	0.038 µg/L (J)	Detected				
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	Detected							
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	< 0.026 µg/L	0.0013 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	0.002 µg/L (J)	Detected
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Dibromochloromethane	< 0.2 - < 1 µg/L	153 µg/L	363 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Detected
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12800 µg/L	< 0.2 µg/L	0.792 µg/L (J)	0.367 µg/L (J)	< 0.2 µg/L	Detected				
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.5 µg/L	0.724 mg/L (J)	0.457 mg/L (J)	0.27 mg/L (J)	0.469 mg/L (J)	0.418 mg/L (J)	0.208 mg/L (J)	0.352 mg/L (J)	Detected
Fluoranthene	< 0.013 - 0.102 µg/L	26 µg/L	n/a †	< 0.013 µg/L	1.34 µg/L (J)	0.673 µg/L (J)	< 0.013 µg/L	Detected				
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.04 µg/L	1.09 µg/L (J)	0.138 µg/L (J)	< 0.04 µg/L	Detected				

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 13, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017	WS023	WS024
				PNTX1212M002 Level 2 Verified	PNTX1212M003 Level 2 Verified	PNTX1212M006 Level 2 Verified	PNTX1212M009 Level 2 Verified	PNTX1212M010 Level 2 Verified	PNTX1212M017 Level 2 Verified	PNTX1212M023 Level 2 Verified	PNTX1212M024 Level 2 Verified
Hexachlorobenzene	<0.5 - 0.526 µg/L	0.00045 µg/L	n/a †	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
Hexachlorobutadiene	<0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	255 µg/L	<1.46 µg/L	<1.39 µg/L	<1.53 µg/L					
Hexachloroethane	<0.5 - 0.526 µg/L	2.33 µg/L	n/a †	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
Indeno(1,2,3-cd)pyrene	<0.013 - 0.098 µg/L	0.013 µg/L	n/a †	<0.013 µg/L	0.527 µg/L (J)	<0.013 µg/L	0.028 µg/L (J)				
Isophorone	<0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
Isopropylbenzene (Cumene)	<0.2 - 0.8 µg/L	n/a †	8440 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	1.09 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
m,p-Cresol	<0.25 - 0.276 µg/L	n/a †	19500 µg/L	<0.253 µg/L	<0.253 µg/L	<0.253 µg/L	<0.253 µg/L	<0.253 µg/L	<0.253 µg/L	<0.253 µg/L	<0.253 µg/L
m,p-Xylene	<0.2 - 0.8 µg/L	n/a †	n/a †	<0.2 µg/L	1.06 µg/L (J)	0.281 µg/L (J)	<0.2 µg/L				
Methyl iodide	<0.5 - 0.5 µg/L	n/a †	670 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Methylene chloride	<0.2 - 2.12 µg/L	13000 µg/L	3370 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Butylbenzene	<0.2 - 0.7 µg/L	n/a †	1200 µg/L	<0.2 µg/L	0.413 µg/L (J)	0.21 µg/L (J)	<0.2 µg/L				
n-Nitrosodi-n-propylamine	<0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
n-Nitrosodimethylamine	<0.5 - 0.526 µg/L	50 µg/L	0.952 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
n-Nitrosodiphenylamine	<0.5 - 0.526 µg/L	60 µg/L	421 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
n-Propylbenzene	<0.5 - 1 µg/L	n/a †	2950 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Naphthalene	<0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.095 µg/L (J)	0.412 µg/L (J)	0.25 µg/L (J)	<0.013 µg/L	0.187 µg/L (J)	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L
Nitrobenzene	<0.5 - 0.526 µg/L	1672 µg/L	248 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
o-Cresol	<0.5 - 0.5 µg/L	n/a †	19500 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
o-Xylene	<0.2 - 0.8 µg/L	n/a †	227000 µg/L	<0.2 µg/L	0.458 µg/L (J)	0.21 µg/L (J)	<0.2 µg/L				
Oil and Grease	<1500 - 1400 µg/L	n/a †	n/a †	<1.3 mg/L	4 mg/L (J)	2.8 mg/L (J)	<1.3 mg/L				
Pentachlorophenol	<0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
PFHxS	<1.37 - 1.64 ng/L	n/a †	189.3 ng/L	<1.37 ng/L	141 ng/L	15.3 ng/L (J)	<1.37 ng/L	11.37 ng/L	<1.37 ng/L	<1.37 ng/L	4.75 ng/L (J)
PFOA	<1.5 - 1.85 ng/L	n/a †	n/a †	<1.5 ng/L	25.9 ng/L	9.5 ng/L	<1.5 ng/L	1.85 ng/L (J)	<1.5 ng/L	<1.5 ng/L	2.77 ng/L (J)
PFOS	<1.42 - 6 ng/L	n/a †	n/a †	<1.42 ng/L	200 ng/L (J)	90.5 ng/L	<1.42 ng/L	123 ng/L	<1.42 ng/L	<1.42 ng/L	<1.42 ng/L
Phenanthrene	<0.013 - 0.098 µg/L	n/a †	1070 µg/L	0.04 µg/L (J)	1.89 µg/L (J)	0.114 µg/L (J)	<0.013 µg/L				
Phenol	<0.5 - 0.558 µg/L	300000 µg/L	160000 µg/L	<0.505 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L	<0.51 µg/L
Pyrene	<0.026 - 0.087 µg/L	30 µg/L	n/a †	<0.026 µg/L	1.68 µg/L (J)	0.075 µg/L (J)	<0.026 µg/L	0.157 µg/L (J)	<0.026 µg/L	<0.026 µg/L	<0.026 µg/L
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	<1.46 µg/L	<1.56 µg/L						
sec-Butylbenzene	<0.2 - 0.8 µg/L	n/a †	1950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Styrene	<0.2 - 0.8 µg/L	n/a †	29500 µg/L	<0.2 µg/L	1 µg/L (J)	0.256 µg/L (J)	<0.2 µg/L				
tert-Butyl methyl ether (MTBE)	<0.2 - 0.8 µg/L	10462 µg/L	5470 µg/L	<0.2 µg/L	0.75 µg/L (J)	0.4 µg/L	<0.2 µg/L	0.78 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
tert-Butylbenzene	<0.2 - 0.8 µg/L	n/a †	1400 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Tetrachloroethene	<0.2 - 0.8 µg/L	280 µg/L	148 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Toluene	<0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.024 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Total Organic Carbon	<500 - 3350 µg/L	n/a †	n/a †	<57.3 mg/L	181.8 mg/L	68.7 mg/L	7.98 mg/L	35.5 mg/L	35.1 mg/L	7.37 mg/L	7.31 mg/L
Total TPH (C6-C9)	<107 - 1103 µg/L	n/a †	n/a †	575 µg/L (J)	48.2 mg/L	60,900 µg/L (J)	<170 mg/L	402 µg/L (J)	2,760 µg/L	<100 µg/L	<110 µg/L
trans-1,2-Dichloroethene	<0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,3-Dichloropropene	<0.2 - 0.3 µg/L	n/a †	250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 µg/L	n/a †	n/a †	<0.5 µg/L							
Trichloroethene	<0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorofluoromethane	<0.2 - 0.8 µg/L	n/a †	43300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorotrifluoroethane	<0.2 - 0.2 µg/L	n/a †	600000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl acetate	<0.2 - 0.2 µg/L	n/a †	748000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl chloride	<0.2 - 0.1 µg/L	11.3 µg/L	16.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Xylene (total)	<0.4 - 1 µg/L	n/a †	24000 µg/L	<0.4 µg/L	1.54 µg/L (J)	<0.4 µg/L					

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL available

(R) QC Rejected for unreliable result

(J) Quantization is approximate

# South 4 Group Fire

Surface Water Screening Values - December 14, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS010	WS017	WS025	WS024
				PNTX1214X002 Level 2 Verified	PNTX1214X003 Level 2 Verified	PNTX1214X006 Level 2 Verified	PNTX1214X010 Level 2 Verified	PNTX1214X017 Level 2 Verified	PNTX1214X022 Level 2 Verified	PNTX1214X024 Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.32 µg/L	0.12 µg/L	0.214 µg/L (J)	0.042 µg/L (J)	<0.041 µg/L	<0.041 µg/L	<0.041 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	5299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L						
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	650 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L	1.26 µg/L (J)	<0.5 µg/L	<0.5 µg/L	0.466 µg/L (J)	<0.5 µg/L	<0.5 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	526 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	196 µg/L	900 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	14.91 µg/L	11.8 µg/L	11.2 µg/L	40 µg/L	<0.2 µg/L	<0.2 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	1 µg/L (P)	1 µg/L (P)	1 µg/L (Q)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	0.212 µg/L	0.102 µg/L (J)	1.69 µg/L (J)	0.045 µg/L (J)	<0.041 µg/L	<0.041 µg/L	<0.041 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	10.5 µg/L	10.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrophenol	<0.5 - <1.87 µg/L	360 µg/L	1270 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L						
4-Chloro-3-methylphenol	<0.5 - <0.526 µg/L	2000 µg/L	820 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L						
4-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	1.12 µg/L (J)	2.54 µg/L (J)	3.7 µg/L (J)	3.11 µg/L	1.15 µg/L (J)	<0.2 µg/L	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.518 µg/L	n/a †	966 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Nitrophenol	<0.5 - <1.87 µg/L	n/a †	1120 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4,6-Dinitro-2-methylphenol	<0.6 - <1.87 µg/L	30 µg/L	30 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS009 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL available  
(R) QC Rejected for unreliable result  
(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 14, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS010	WS017	WS025	WS024
				PNTX1214X002 Level 2 Verified	PNTX1214X003 Level 2 Verified	PNTX1214X006 Level 2 Verified	PNTX1214X010 Level 2 Verified	PNTX1214X017 Level 2 Verified	PNTX1214X022 Level 2 Verified	PNTX1214X024 Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	67.3 µg/L (J)	139 µg/L	17,300 µg/L (J)	< 144 µg/L	2,540 µg/L	< 125 µg/L	< 130 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 124 µg/L	< 124 µg/L	3,020 µg/L (J)	< 144 µg/L	< 123 µg/L	< 122 µg/L	< 137 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.03 µg/L	0.003 µg/L	0.609 µg/L (J)	< 0.003 µg/L	< 0.003 µg/L	< 0.003 µg/L	< 0.003 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	n/a †	0.255 µg/L	0.558 µg/L	3.5 µg/L (J)	< 0.01 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	790000 µg/L	< 0.5 µg/L	< 0.4 µg/L	45 µg/L	167 µg/L	12 µg/L	< 1 µg/L	< 1.8 µg/L
Acrolein	< 2 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.5 - 0.780 µg/L	n/a †	4630 µg/L	< 0.781 µg/L	< 0.781 µg/L	10.7 µg/L	13.7 µg/L	13.7 µg/L	40.8 µg/L	40.7 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.041 µg/L	< 0.041 µg/L	0.795 µg/L (J)	< 0.04 µg/L	< 0.041 µg/L	< 0.04 µg/L	< 0.04 µg/L
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.1 µg/L	0.49 µg/L (J)	< 0.1 µg/L	0.472 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L
Benzo(a)anthracene	< 0.025 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L	< 0.025 µg/L	0.144 µg/L (J)	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	< 0.013 µg/L	0.242 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	< 0.019 µg/L	0.172 µg/L (J)	< 0.019 µg/L	< 0.019 µg/L	< 0.019 µg/L	< 0.019 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L	< 0.013 µg/L	0.135 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L	< 0.026 µg/L	0.061 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	n/a †	< 0.521 µg/L	< 0.521 µg/L	0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.89 µg/L	n/a †	< 0.25 µg/L						
Bromobenzene	< 0.2 - < 0.2 µg/L	4000 µg/L	n/a †	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	0.2 µg/L	0.2 µg/L	0.2 µg/L	0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	28600 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.1 µg/L	0.08 µg/L (J)	1.05 µg/L (J)	0.5 µg/L	1.35 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	n/a †	< 0.25 µg/L						
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L	0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7800 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 107 µg/L	< 109 µg/L	435 µg/L (J)	3.790 µg/L	< 109 µg/L	< 109 µg/L	< 109 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.521 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L						
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L						
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	0.25 µg/L	0.25 µg/L	0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2850 µg/L	< 0.5 µg/L	15.4 µg/L	16.1 µg/L	54.8 µg/L	18.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L	< 0.1 µg/L
Chrysene	< 0.025 - 0.061 µg/L	2.52 µg/L	n/a †	< 0.025 µg/L	< 0.025 µg/L	0.224 µg/L (J)	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4160 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	0.2 µg/L	0.2 µg/L	0.2 µg/L	0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L						
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0113 µg/L	n/a †	< 0.026 µg/L						
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	23.9 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	363 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.900 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4900 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	0.25 µg/L	0.25 µg/L	0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.521 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	0.2 µg/L	0.2 µg/L	0.2 µg/L	0.2 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.525 µg/L	0.539 µg/L (J)	0.444 mg/L (J)	0.42 mg/L	0.321 mg/L (J)	0.25 mg/L (J)	0.439 mg/L (J)
Fluoranthene	< 0.013 - 0.102 µg/L	26 µg/L	n/a †	< 0.013 µg/L	0.07 µg/L (J)	0.326 µg/L (J)	0.092 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	0.075 µg/L (J)	0.095 µg/L (J)	0.814 µg/L (J)	0.045 µg/L (J)	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS009 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 14, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS010	WS017	WS025	WS024
				PNTX1214X002 Level 2 Verified	PNTX1214X003 Level 2 Verified	PNTX1214X006 Level 2 Verified	PNTX1214X010 Level 2 Verified	PNTX1214X017 Level 2 Verified	PNTX1214X022 Level 2 Verified	PNTX1214X024 Level 2 Verified
Hexachlorobenzene	< 0.5 - 0.526 µg/L	0.00046 µg/L	n/a †	< 0.521 µg/L	< 0.51 µg/L	1.0 µg/L	0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.521 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.58 µg/L
Hexachloroethane	< 0.5 - 0.526 µg/L	2.33 µg/L	n/a †	< 0.521 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.098 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	< 0.013 µg/L	0.063 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L
Isophorone	< 0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	< 0.521 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.8 µg/L	n/a †	n/a †	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	1.8 µg/L (J)	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	< 0.276 µg/L	< 0.276 µg/L	10.2 µg/L	13.1 µg/L	13.2 µg/L	43.1 µg/L	40.1 µg/L
m,p-Xylene	< 0.2 - 0.8 µg/L	n/a †	n/a †	< 0.8 µg/L	0.28 µg/L (J)	< 0.8 µg/L	1.41 µg/L (J)	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 2.12 µg/L	13333 µg/L	3370 µg/L	< 2.12 µg/L	< 0.833 µg/L	< 2.12 µg/L	< 2.12 µg/L	< 2.12 µg/L	< 2.12 µg/L	< 2.12 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1600 µg/L	< 0.7 µg/L	< 0.7 µg/L	13.2 µg/L	1.2 µg/L	1.2 µg/L	< 0.7 µg/L	< 0.7 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	< 0.521 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.952 µg/L	< 0.521 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.526 µg/L	60 µg/L	421 µg/L	< 0.521 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2950 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.063 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	0.280 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L
Nitrobenzene	< 0.5 - 0.526 µg/L	1673 µg/L	248 µg/L	< 0.521 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.521 µg/L	< 0.51 µg/L	1.1 µg/L	1.1 µg/L	1.1 µg/L	1.1 µg/L	1.1 µg/L
o-Xylene	< 0.2 - 0.8 µg/L	n/a †	227000 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a †	2.2 mg/L (J)	1.6 mg/L (J)	2.1 mg/L (J)	< 1.6 mg/L	3.1 mg/L (J)	< 1.6 mg/L	1.6 mg/L (J)
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	42.4 ng/L (J)	55.2 ng/L (J)	14.4 ng/L (J)	14.4 ng/L	19.3 ng/L (J)	< 1.37 ng/L	0.99 ng/L (J)
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	14.1 ng/L	14 ng/L	9.5 ng/L	9.19 ng/L (J)	12.8 ng/L	< 1.5 ng/L	2.46 ng/L (J)
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	1.02 ng/L	1.01 ng/L	6.13 ng/L	73.3 ng/L	72.8 ng/L	< 1.42 ng/L	< 1.42 ng/L
Phenanthrene	< 0.013 - 0.098 µg/L	n/a †	1070 µg/L	0.026 µg/L (J)	< 0.013 µg/L	0.427 µg/L (J)	0.119 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L
Phenol	< 0.5 - 0.558 µg/L	300000 µg/L	160000 µg/L	< 0.521 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.51 µg/L
Pyrene	< 0.026 - 0.087 µg/L	30 µg/L	n/a †	< 0.026 µg/L	0.065 µg/L (J)	0.501 µg/L (J)	0.174 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	717 µg/L	< 1.56 µg/L	< 1.56 µg/L	< 1.56 µg/L	< 1.56 µg/L	< 1.56 µg/L	< 1.56 µg/L	< 1.56 µg/L
sec-Butylbenzene	< 0.2 - 0.8 µg/L	n/a †	1950 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L
Styrene	< 0.2 - 0.8 µg/L	n/a †	29500 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	1.4 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.8 µg/L	n/a †	10462 µg/L	4.01 µg/L (J)	< 0.8 µg/L	< 0.8 µg/L	7.7 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L
tert-Butylbenzene	< 0.2 - 0.8 µg/L	n/a †	1400 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	148 µg/L	< 0.6 µg/L	< 0.6 µg/L	10.2 µg/L	10.2 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L	0.952 µg/L (J)	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L
Total Organic Carbon	< 550 - 3350 µg/L	n/a †	n/a †	26.3 mg/L	14.8 mg/L	47.7 mg/L	48.3 mg/L	33.3 mg/L	7.51 mg/L	8.1 mg/L
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	673 µg/L (J)	< 107 µg/L	21,400 µg/L (J)	1,740 µg/L (J)	1,540 µg/L	< 107 µg/L	< 107 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.6 µg/L	< 0.6 µg/L	13.2 µg/L	13.2 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L
trans-1,3-Dichloropropene	< 0.2 - 1 µg/L	n/a †	250 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L						
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L
Trichlorofluoromethane	< 0.2 - 0.8 µg/L	n/a †	43500 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L	< 0.8 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	600000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 1 µg/L	11.3 µg/L	16.5 µg/L	< 1 µg/L	< 1 µg/L	10.2 µg/L	10.2 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	1.41 µg/L (J)	< 1 µg/L	< 1 µg/L	< 1 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS002 and WS003

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL Available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

South 4 Group Fire

Surface Water Screening Values - December 15, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS010	WS017	WS025
				PNTX1215X002 Level 2 Verified	PNTX1215X003 Level 2 Verified	PNTX1215X006 Level 2 Verified	PNTX1215X010 Level 2 Verified	PNTX1215X017 Level 2 Verified	PNTX1215X025 Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	0.154 µg/L	0.058 µg/L (J)	0.098 µg/L (J)	0.07 µg/L (J)	<0.041 µg/L	<0.045 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48800 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	5299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L					
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.203 µg/L (J)	<0.2 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L	1.09 µg/L (J)	<0.5 µg/L	<0.5 µg/L	1.09 µg/L (J)	<0.5 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	538 µg/L	9760 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	12.55 µg/L	<0.53 µg/L	<0.53 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	n/a †	0.34 µg/L	0.23 µg/L	4.74 µg/L (J)	<0.2 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)					
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	0.145 µg/L	0.047 µg/L (J)	0.186 µg/L	0.058 µg/L (J)	<0.041 µg/L	<0.045 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	12.55 µg/L	<0.53 µg/L	<0.53 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,4-Dinitrophenol	<0.5 - <1.87 µg/L	360 µg/L	1270 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	485 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	0.539 µg/L (R)	<0.53 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.53 µg/L					
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	820 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.53 µg/L	<0.53 µg/L	<0.53 µg/L	12.55 µg/L	<0.53 µg/L	<0.53 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.53 µg/L					
4-Chlorotoluene	<0.2 - <0.5 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	2.25 µg/L (J)	1.56 µg/L (J)	<0.2 µg/L	1.29 µg/L (J)	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.518 µg/L	n/a †	966 µg/L	<1.518 µg/L	<1.518 µg/L	<1.518 µg/L	<1.518 µg/L	1.518 µg/L (R)	<1.518 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	1.67 µg/L (R)	<1.67 µg/L
4,6-Dinitro-2-methylphenol	<0.6 - <1.67 µg/L	30 µg/L	30 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L	<1.67 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS009 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL Available

(R) QC Rejected for unreliable result

(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 15, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS010	WS017	WS025
				PNTX1215X002 Level 2 Verified	PNTX1215X003 Level 2 Verified	PNTX1215X006 Level 2 Verified	PNTX1215X010 Level 2 Verified	PNTX1215X017 Level 2 Verified	PNTX1215X025 Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	1,340 µg/L (J)	1,770 µg/L (J)	4,740 µg/L	< 121 µg/L	2,140 µg/L	< 125 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 125 µg/L	< 121 µg/L	1,530 µg/L (J)	< 127 µg/L	< 123 µg/L	< 125 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.019 µg/L	< 0.021 µg/L	0.033 µg/L	0.050 µg/L (J)	0.039 µg/L	< 0.042 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	0.293 µg/L	0.801 µg/L	1.55 µg/L	0.239 µg/L (J)	1.07 µg/L	< 0.042 µg/L
Acetone	< 0.5 - < 1.97 µg/L	n/a †	790000 µg/L	7.03 µg/L	15.9 µg/L	30 µg/L	4.7 µg/L	17.6 µg/L	1.87 µg/L (J)
Acrolein	< 2 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.0 µg/L	< 2.0 µg/L	< 2.0 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.780 µg/L	n/a †	4630 µg/L	< 0.745 µg/L	< 0.745 µg/L	< 0.745 µg/L	13.33 µg/L	13.368 µg/L	< 0.745 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.04 µg/L	0.112 µg/L	0.102 µg/L (J)	0.051 µg/L (J)	0.08 µg/L (J)	< 0.042 µg/L
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.1 µg/L	0.479 µg/L (J)	< 0.1 µg/L	< 0.1 µg/L	0.735 µg/L (J)	< 0.2 µg/L
Benzidine	< 1 - 2.63 µg/L	0.207 µg/L	0.156 µg/L	< 2.65 µg/L	< 2.65 µg/L	< 2.65 µg/L	< 2.65 µg/L	2.69 µg/L (9)	< 2.65 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L	0.04 µg/L (J)	0.055 µg/L (J)	0.037 µg/L (J)	0.046 µg/L (J)	< 0.026 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	0.029 µg/L (J)	0.026 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	0.029 µg/L (J)	< 0.019 µg/L	< 0.019 µg/L	< 0.019 µg/L	< 0.019 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.042 µg/L	n/a †	n/a †	< 0.013 µg/L	0.029 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L					
Benzoic acid	< 0.5 - < 1.87 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 1.59 µg/L	< 1.59 µg/L	< 7.85 µg/L	< 1.41 µg/L	< 0.5 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.1 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.5 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.85 µg/L	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.263 µg/L	< 0.25 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 1.1 µg/L	n/a †	28600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	1.12 µg/L (J)	1.43 µg/L (J)	3.95 µg/L (J)	1.31 µg/L (J)	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	0.391 µg/L (J)	0.731 µg/L (J)	< 0.25 µg/L	0.749 µg/L (J)	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.263 µg/L	< 0.25 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 109 µg/L	< 104 µg/L	< 109 µg/L	< 109 µg/L	4.540 µg/L	< 109 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.55 µg/L	< 0.526 µg/L	< 0.5 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L					
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L					
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	< 0.2 µg/L	15.81 µg/L	19.2 µg/L	34.3 µg/L	18.4 µg/L	< 0.2 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.026 - 0.042 µg/L	2.52 µg/L	n/a †	< 0.025 µg/L	0.026 µg/L (J)	0.036 µg/L (J)	< 0.026 µg/L	0.035 µg/L (J)	< 0.026 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.1 µg/L	14.53 µg/L	< 0.53 µg/L	< 0.55 µg/L	< 0.526 µg/L	< 0.5 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.263 µg/L	< 0.25 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	< 0.026 µg/L	< 0.026 µg/L
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	155 µg/L	363 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.281 µg/L (J)	0.376 µg/L (J)	0.375 µg/L (J)	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.526 µg/L	< 0.5 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.55 µg/L	< 0.526 µg/L	< 0.5 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	0.227 µg/L (J)	0.273 µg/L (J)	0.6 µg/L	0.511 µg/L (J)	< 0.2 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	0.418 mg/L (J)	0.354 mg/L (J)	0.302 mg/L (J)	0.658 mg/L (J)	0.308 mg/L (J)	0.512 mg/L (J)
Fluoranthene	< 0.013 - 0.102 µg/L	26 µg/L	n/a †	< 0.013 µg/L	0.039 µg/L	0.039 µg/L	0.089 µg/L	0.049 µg/L	< 0.013 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	0.092 µg/L (J)	< 0.041 µg/L	0.031 µg/L	0.101 µg/L (J)	0.092 µg/L (J)	< 0.042 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 15, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS010	WS017	WS025
				PNTX1215X002 Level 2 Verified	PNTX1215X003 Level 2 Verified	PNTX1215X006 Level 2 Verified	PNTX1215X010 Level 2 Verified	PNTX1215X017 Level 2 Verified	PNTX1215X025 Level 2 Verified
Hexachlorobenzene	< 0.5 - 0.525 µg/L	0.00045 µg/L	n/a †	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 2.45 µg/L	< 0.51 µg/L	< 0.5 µg/L
Hexachlorobutadiene	< 0.3 - 0.525 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 1.5 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 7.45 µg/L	< 1.5 µg/L	< 1.5 µg/L
Hexachloroethane	< 0.5 - 0.525 µg/L	0.22 µg/L	n/a †	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 2.45 µg/L	< 0.5 µg/L	< 0.5 µg/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.048 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	0.022 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L
Isophorone	< 0.5 - 0.525 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 2.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.5 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	3.29 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	11.73 µg/L	< 0.25 µg/L	< 0.25 µg/L
m,p-Xylene	< 0.2 - 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	0.257 µg/L (J)	< 0.2 µg/L	2.96 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 0.212 µg/L	13333 µg/L	3370 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.525 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.525 µg/L	50 µg/L	0.962 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.525 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 2.45 µg/L	< 0.5 µg/L	< 0.5 µg/L
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2550 µg/L	< 0.5 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 0.5 µg/L	< 1 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.594 µg/L	0.045 µg/L (J)	0.413 µg/L	0.523 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Nitrobenzene	< 0.5 - 0.525 µg/L	1673 µg/L	248 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
o-Xylene	< 0.2 - 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	2.06 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a †	1.7 mg/L (J)	2.6 mg/L (J)	2 mg/L (J)	1.8 mg/L (J)	1.7 mg/L (J)	< 1.5 mg/L
Pentachlorophenol	< 0.5 - 0.5 µg/L	0.29 µg/L	9.32 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	43.4 ng/L (J)	37.5 ng/L (J)	11.8 ng/L (J)	3 ng/L	12.5 ng/L (J)	1.46 ng/L (J)
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	14.5 ng/L	11.4 ng/L	< 1.5 ng/L	9.33 ng/L (J)	13.3 ng/L	< 1.5 ng/L
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	160 ng/L	75.8 ng/L	75.8 ng/L	32.2 ng/L	73.4 ng/L (J)	< 0.57 ng/L
Phenanthrene	< 0.013 - 0.048 µg/L	n/a †	1070 µg/L	< 0.013 µg/L	0.095 µg/L (J)	0.022 µg/L (J)	0.103 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Phenol	< 0.5 - 0.555 µg/L	300000 µg/L	160000 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.51 µg/L	< 2.45 µg/L	< 0.5 µg/L	< 0.5 µg/L
Pyrene	< 0.028 - 0.037 µg/L	30 µg/L	n/a †	< 0.028 µg/L	0.175 µg/L	0.235 µg/L	0.144 µg/L (J)	0.228 µg/L	< 0.028 µg/L
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	71.7 µg/L	< 0.5 µg/L	< 1.56 µg/L	< 1.56 µg/L	< 7.45 µg/L	< 0.5 µg/L	< 0.5 µg/L
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.5 µg/L	n/a †	29500 µg/L	0.394 µg/L (J)	0.265 µg/L (J)	< 0.2 µg/L	5.46 µg/L	1.16 µg/L (J)	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	4.75 µg/L (J)	84 µg/L	109 µg/L	2.84 µg/L	39.8 µg/L	< 0.2 µg/L
tert-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.5 µg/L	280 µg/L	146 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.214 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Total Organic Carbon	< 550 - 3350 µg/L	n/a †	n/a †	38.3 mg/L	11.3 mg/L	38.9 mg/L	45.5 mg/L	37.1 mg/L	5.23 mg/L
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	1,340 µg/L (J)	1,770 µg/L (J)	5,070 µg/L	4,540 µg/L	2,540 µg/L	< 1,060 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.5 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.3 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L					
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	604000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 1 µg/L	16.5 µg/L	n/a †	< 0.2 µg/L					
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	5.02 µg/L (J)	< 0.4 µg/L	< 0.4 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL Available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

South 4 Group Fire

Surface Water Screening Values - December 16, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017
				PNTX1216X002 Level 2 Verified	PNTX1216X003 Level 2 Verified	PNTX1216X006 Level 2 Verified	PNTX1216X009 Level 2 Verified	PNTX1216X010 Level 2 Verified	PNTX1216X017 Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.041 µg/L	<0.043 µg/L	<0.042 µg/L	<0.045 µg/L	<0.046 µg/L	<0.041 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48800 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3289 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L					
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.252 µg/L (J)	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	9.57 µg/L	<0.5 µg/L	<0.500 µg/L	<0.521 µg/L	<0.526 µg/L	<0.5 µg/L	<0.526 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L					
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	535 µg/L	9750 µg/L	<0.2 µg/L	<0.201 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.201 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	0.791 µg/L	0.710 µg/L	<0.2 µg/L	5.0 µg/L	5.09 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	1 µg/L (P)	1 µg/L (P)	1 µg/L (Q)	1 µg/L (R)	1 µg/L (R)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.526 µg/L	<0.5 µg/L	<0.526 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	<0.5 µg/L	<0.505 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
2-Chlorotoluene	<0.2 - <0.8 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.041 µg/L	<0.043 µg/L	<0.042 µg/L	<0.045 µg/L	<0.046 µg/L	<0.041 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.505 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.505 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.505 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	3436 µg/L	4740 µg/L	<0.5 µg/L	<0.505 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
2,4-Dinitrophenol	<0.5 - <1.87 µg/L	360 µg/L	1270 µg/L	<0.5 µg/L	<0.505 µg/L	<1.189 µg/L	<1.189 µg/L	<0.5 µg/L	<1.39 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.526 µg/L	<0.5 µg/L	<0.526 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.505 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	28 µg/L	455 µg/L	<0.5 µg/L	<0.505 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.526 µg/L	<0.5 µg/L	<0.526 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.526 µg/L	<0.5 µg/L	<0.526 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.505 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.526 µg/L	<0.5 µg/L	<0.526 µg/L
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	820 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.526 µg/L	<0.5 µg/L	<0.526 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.505 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	<0.505 µg/L	<0.541 µg/L	<0.546 µg/L	<0.5 µg/L	<0.526 µg/L
4-Chlorotoluene	<0.2 - <0.8 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.365 µg/L (J)	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	1.52 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	10.3 µg/L	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.518 µg/L	n/a †	966 µg/L	<0.5 µg/L	<0.505 µg/L	<1.150 µg/L	<1.159 µg/L	<0.5 µg/L	<1.30 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<0.5 µg/L	<0.505 µg/L	<1.159 µg/L	<1.159 µg/L	<0.5 µg/L	<1.39 µg/L
4,6-Dinitro-2-methylphenol	<0.6 - <1.67 µg/L	30 µg/L	30 µg/L	<0.6 µg/L	<0.505 µg/L	<1.159 µg/L	<1.159 µg/L	<0.6 µg/L	<1.39 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS002 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL Available

(R) QC Rejected for unreliable result

(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 16, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017
				PNTX1216Y002 Level 2 Verified	PNTX1216Y003 Level 2 Verified	PNTX1216Y006 Level 2 Verified	PNTX1216Y009 Level 2 Verified	PNTX1216X010 Level 2 Verified	PNTX1216X017 Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	895 µg/L (J)	4 300 µg/L	3 150 µg/L	< 124 µg/L	919 µg/L (J)	10 400 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 124 µg/L					
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.019 µg/L	< 0.019 µg/L	0.004 µg/L	< 0.019 µg/L	0.015 µg/L (J)	0.044 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	< 0.041 µg/L	< 0.041 µg/L	1.35 µg/L	< 0.041 µg/L	< 0.041 µg/L	1.48 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	0.62 µg/L	24.4 µg/L	< 0.5 µg/L	< 0.5 µg/L	79.7 µg/L	20 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.780 µg/L	n/a †	4630 µg/L	< 0.745 µg/L	< 0.745 µg/L	< 0.745 µg/L	< 0.745 µg/L	< 0.745 µg/L	< 0.745 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.2 µg/L	0.256 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	0.374 µg/L (J)	< 0.2 µg/L
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.66 µg/L	< 2.66 µg/L	< 2.66 µg/L	< 2.66 µg/L	< 2.66 µg/L	< 2.66 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.026 µg/L	0.044 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	0.067 µg/L (J)
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L					
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L					
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L					
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L					
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.58 µg/L	< 1.58 µg/L
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.89 µg/L	n/a †	< 0.25 µg/L	< 0.263 µg/L	< 0.263 µg/L	< 0.263 µg/L	< 0.263 µg/L	< 0.263 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 1.1 µg/L	n/a †	28600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	1.28 µg/L (J)	1.28 µg/L (J)	< 0.2 µg/L	4.83 µg/L (J)	0.953 µg/L (J)
Bromoform	< 0.25 - < 0.25 µg/L	4360 µg/L	4360 µg/L	< 0.25 µg/L	0.563 µg/L (J)	0.773 µg/L (J)	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.263 µg/L	< 0.263 µg/L	< 0.263 µg/L	< 0.263 µg/L	< 0.263 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 109 µg/L	2.072 µg/L	5.259 µg/L	< 109 µg/L	5.499 µg/L	8.999 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	1.37 µg/L (J)	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	< 0.2 µg/L	18.5 µg/L	18.1 µg/L	< 0.2 µg/L	68 µg/L	8.9 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.026 - 0.061 µg/L	2.52 µg/L	n/a †	< 0.026 µg/L	0.028 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	0.043 µg/L (J)
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4160 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.263 µg/L	< 0.263 µg/L	< 0.263 µg/L	< 0.263 µg/L	< 0.263 µg/L
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0113 µg/L	n/a †	< 0.026 µg/L					
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	363 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.283 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4900 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L	< 0.506 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.506 µg/L	0.479 mg/L (J)	0.442 mg/L (J)	0.768 mg/L (J)	0.731 mg/L (J)	0.458 mg/L (J)
Fluoranthene	< 0.013 - 0.102 µg/L	26 µg/L	n/a †	< 0.013 µg/L	0.38 µg/L	0.38 µg/L	0.074 µg/L (J)	0.304 µg/L (J)	0.227 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL Available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 16, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017
				PNTX1216X002 Level 2 Verified	PNTX1216X003 Level 2 Verified	PNTX1216X006 Level 2 Verified	PNTX1216X009 Level 2 Verified	PNTX1216X010 Level 2 Verified	PNTX1216X017 Level 2 Verified
Hexachlorobenzene	<0.5 - 0.526 µg/L	0.00045 µg/L	n/a †	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.52 µg/L	<0.5 µg/L	<0.51 µg/L
Hexachlorobutadiene	<0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	<0.3 µg/L	<0.291 µg/L	<0.291 µg/L	<0.291 µg/L	<0.3 µg/L	<0.32 µg/L
Hexachlorocyclopentadiene	<1 - 1.58 µg/L	11.6 µg/L	255 µg/L	<1 µg/L	<1.30 µg/L	<1.35 µg/L	<1.35 µg/L	<1.3 µg/L	<1.39 µg/L
Hexachloroethane	<0.5 - 0.526 µg/L	0.33 µg/L	n/a †	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.52 µg/L	<0.5 µg/L	<0.51 µg/L
Indeno(1,2,3-cd)pyrene	<0.013 - 0.098 µg/L	0.013 µg/L	n/a †	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	<0.014 µg/L	<0.014 µg/L	<0.014 µg/L
Isophorone	<0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
Isopropylbenzene (Cumene)	<0.2 - 0.8 µg/L	n/a †	8440 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	3.03 µg/L (J)	<0.2 µg/L
m,p-Cresol	<0.25 - 0.276 µg/L	n/a †	19500 µg/L	<0.25 µg/L	<0.251 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L
m,p-Xylene	<0.2 - 0.2 µg/L	n/a †	n/a †	<0.2 µg/L					
Methyl iodide	<0.5 - 0.5 µg/L	n/a †	670 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Methylene chloride	<0.2 - 0.2 µg/L	13333 µg/L	3370 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Butylbenzene	<0.2 - 0.7 µg/L	n/a †	1600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
n-Nitrosodi-n-propylamine	<0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
n-Nitrosodimethylamine	<0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	<0.5 µg/L	<0.505 µg/L	<0.505 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
n-Nitrosodiphenylamine	<0.5 - 0.526 µg/L	60 µg/L	421 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
n-Propylbenzene	<0.5 - 0.5 µg/L	n/a †	2950 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Naphthalene	<0.013 - 0.2 µg/L	n/a †	2550 µg/L	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	<0.014 µg/L	0.15 µg/L	<0.014 µg/L
Nitrobenzene	<0.5 - 0.526 µg/L	1672 µg/L	248 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
o-Cresol	<0.5 - 0.5 µg/L	n/a †	19500 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
o-Xylene	<0.2 - 0.2 µg/L	n/a †	227000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Oil and Grease	<1500 - 0.1600 µg/L	n/a †	n/a ‡	1.7 mg/L (J)	5.1 mg/L (J)	12.8 mg/L	<1.6 mg/L	11.1 mg/L	14 mg/L
Pentachlorophenol	<0.5 - 0.5 µg/L	0.29 µg/L	9.92 µg/L	<0.5 µg/L	<0.505 µg/L	<0.505 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
PFHxS	<1.37 - 1.64 ng/L	n/a †	n/a †	87.8 ng/L (J)	49.3 ng/L (J)	18.8 ng/L (J)	11.37 ng/L	14.0 ng/L	17.1 ng/L (J)
PFOA	<1.5 - 1.85 ng/L	n/a †	n/a ‡	21 ng/L	21.9 ng/L	21.2 ng/L	<1.5 ng/L	24.8 ng/L	<1.5 ng/L
PFOS	<1.42 - 6 ng/L	n/a †	n/a ‡	282 ng/L	1.81 ng/L	62.4 ng/L	5.45 ng/L (J)	75.3 ng/L	73.7 ng/L
Phenanthrene	<0.013 - 0.098 µg/L	n/a †	1070 µg/L	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	0.026 µg/L (J)	0.22 µg/L	<0.014 µg/L
Phenol	<0.5 - 0.558 µg/L	300000 µg/L	160000 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
Pyrene	<0.026 - 0.087 µg/L	30 µg/L	n/a †	<0.026 µg/L	0.222 µg/L (J)	0.263 µg/L	0.052 µg/L (J)	0.273 µg/L	0.316 µg/L
Pyridine	<0.5 - 1.56 µg/L	947 µg/L	717 µg/L	<0.5 µg/L	<0.505 µg/L	<0.51 µg/L	<0.52 µg/L	<0.5 µg/L	<0.52 µg/L
sec-Butylbenzene	<0.2 - 0.5 µg/L	n/a †	1950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Styrene	<0.2 - 0.8 µg/L	n/a †	29600 µg/L	<0.2 µg/L	<0.2 µg/L	0.939 µg/L (J)	<0.2 µg/L	4.516 µg/L	<0.2 µg/L
tert-Butyl methyl ether (MTBE)	<0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	<0.2 µg/L	<0.2 µg/L	7.4 µg/L	<0.2 µg/L	3.78 µg/L (J)	99.3 µg/L
tert-Butylbenzene	<0.2 - 0.5 µg/L	n/a †	1400 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Tetrachloroethene	<0.2 - 0.5 µg/L	280 µg/L	146 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Toluene	<0.2 - 0.7 µg/L	1000 µg/L	18500 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.922 µg/L (J)	<0.2 µg/L
Total Organic Carbon	<550 - 3350 µg/L	n/a †	n/a ‡	38.4 mg/L	11.7 mg/L	67.4 mg/L	6.93 mg/L	54.3 mg/L	57.1 mg/L
Total TPH (C6-C9)	<107 - 0.103 µg/L	n/a †	n/a ‡	985 µg/L (J)	0.177 µg/L	14,170 µg/L	<176 µg/L	6,570 µg/L	14,560 µg/L
trans-1,2-Dichloroethene	<0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,3-Dichloropropene	<0.2 - 0.1 µg/L	n/a †	250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
trans-1,4-Dichloro-2-butene	<0.5 - 0.5 µg/L	n/a †	n/a ‡	<0.5 µg/L					
Trichloroethene	<0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorofluoromethane	<0.2 - 0.2 µg/L	n/a †	49300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Trichlorotrifluoroethane	<0.2 - 0.2 µg/L	n/a †	6040000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl acetate	<0.2 - 0.2 µg/L	n/a †	748000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Vinyl chloride	<0.2 - 0.1 µg/L	16.5 µg/L	n/a †	<0.2 µg/L					
Xylene (total)	<0.4 - 0.1 µg/L	n/a †	24000 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L	<0.4 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS002 and WS003

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

South 4 Group Fire

Surface Water Screening Values - December 17, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS010	WS014	WS017	WS023
				PNTX1217X002 Level 2 Verified	PNTX1217X003 Level 2 Verified	PNTX1217X006 Level 2 Verified	PNTX1217X010 Level 2 Verified	PNTX1217X014 Level 2 Verified	PNTX1217X017 Level 2 Verified	PNTX1217X023 Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48000 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	3299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L						
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	0.469 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	0.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.9 µg/L	<0.9 µg/L	75.8 µg/L (J)	<0.9 µg/L	<0.9 µg/L	<0.9 µg/L	<0.9 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	595 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.2 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	4.52 µg/L (J)	8.48 µg/L	<0.2 µg/L	<0.2 µg/L	3.83 µg/L (J)	<0.2 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	1 µg/L (P)	1 µg/L (P)	50 µg/L (Q)	1 µg/L (Q)	1 µg/L (Q)	1 µg/L (Q)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L	<0.04 µg/L
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.6 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrophenol	<0.5 - <1.67 µg/L	300 µg/L	1270 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.6 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L						
4-Chloro-3-methylphenol	<0.5 - <0.526 µg/L	2000 µg/L	870 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L						
4-Chlorotoluene	<0.2 - <0.6 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	39.1 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Nitroaniline	<0.5 - 1.518 µg/L	n/a †	966 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Nitrophenol	<0.5 - <1.67 µg/L	n/a †	1120 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4,6-Dinitro-2-methylphenol	<0.6 - <1.67 µg/L	30 µg/L	30 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L	<0.6 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS009 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL available  
(R) QC Rejected for unreliable result  
(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 17, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS010	WS014	WS017	WS023
				PNTX1217X002	PNTX1217X003	PNTX1217X006	PNTX1217X010	PNTX1217X014	PNTX1217X017	PNTX1217X023
				Level 2 Verified						
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	< 23 µg/L	4 370 µg/L	5 440 µg/L	< 121 µg/L	< 111 µg/L	0 780 µg/L	< 100 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 125 µg/L	< 124 µg/L	< 121 µg/L	< 122 µg/L	< 122 µg/L	< 122 µg/L	< 122 µg/L
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.05 µg/L	0 637 µg/L	0 678 µg/L	< 0.09 µg/L	< 0.08 µg/L	0 776 µg/L	0 066 µg/L (J)
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	n/a †	< 1.55 µg/L	1 37 µg/L	1 47 µg/L	0 21 µg/L (J)	< 0.74 µg/L	0 59 µg/L	< 0.64 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	1 0 µg/L	28 3 µg/L	0 µg/L	2 37 µg/L (J)	< 4 µg/L	24 µg/L	< 5 µg/L
Acrolein	< 2 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 120 µg/L	< 2 µg/L	< 2 µg/L	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75 7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - 0 780 µg/L	n/a †	4630 µg/L	< 0.73 µg/L	< 0.73 µg/L	13 8 µg/L	13 8 µg/L	< 0.7 µg/L	40 3 µg/L	< 0.73 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.1 µg/L	0 41 µg/L (J)	< 0.1 µg/L				
Benzidine	< 1 - 2 63 µg/L	0 107 µg/L	0 156 µg/L	< 2 63 µg/L	< 2 63 µg/L	< 2 63 µg/L	< 2 63 µg/L	< 2 63 µg/L	< 2 63 µg/L	< 2 63 µg/L
Benzo(a)anthracene	< 0.025 - 0 077 µg/L	0 025 µg/L	n/a †	< 0.025 µg/L	0 039 µg/L (J)	0 037 µg/L (J)	< 0.13 µg/L	< 0.05 µg/L	0 066 µg/L (J)	< 0.025 µg/L
Benzo(a)pyrene	< 0.013 - 0 079 µg/L	0 0025 µg/L	n/a †	< 0.013 µg/L	0 072 µg/L (J)	< 0.013 µg/L				
Benzo(b)fluoranthene	< 0.019 - 0 118 µg/L	0 013 µg/L	n/a †	< 0.019 µg/L	< 0 019 µg/L	0 047 µg/L (J)	< 0 019 µg/L			
Benzo(g,h,i)perylene	< 0.013 - 0 062 µg/L	n/a †	n/a †	< 0 013 µg/L	0 06 µg/L (J)	< 0 013 µg/L				
Benzo(k)fluoranthene	< 0 026 - 0 051 µg/L	0 13 µg/L	n/a †	< 0 026 µg/L	0 051 µg/L (J)	< 0 026 µg/L				
Benzoic acid	< 0 5 - < 1 67 µg/L	n/a †	1880000 µg/L	< 1 50 µg/L	< 1 50 µg/L	< 1 50 µg/L	29 8 µg/L (J)	< 1 50 µg/L	< 1 50 µg/L	< 1 50 µg/L
Benzyl alcohol	< 0 5 - 0 526 µg/L	n/a †	210000 µg/L	< 0 05 µg/L	< 0 05 µg/L	< 0 05 µg/L	11 5 µg/L (J)	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Bis(2-Chloroethoxy)methane	< 0 5 - 0 526 µg/L	n/a †	12 5 µg/L	< 0 05 µg/L	< 0 05 µg/L	< 0 05 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Bis(2-Chloroethyl)ether	< 0 5 - 0 526 µg/L	42 85 µg/L	n/a †	< 0 05 µg/L	< 0 05 µg/L	< 0 05 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Bis(2-Chloroisopropyl)ether	< 0 5 - 0 526 µg/L	4000 µg/L	181 µg/L	< 0 05 µg/L	< 0 05 µg/L	< 0 05 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0 25 - 0 263 µg/L	7 55 µg/L	n/a †	< 0 25 µg/L						
Bromobenzene	< 0 2 - < 0 2 µg/L	n/a †	4600 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L
Bromochloromethane	< 0 2 - < 11 µg/L	n/a †	28800 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 10 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Bromodichloromethane	< 0 2 - < 1 µg/L	275 µg/L	477 µg/L	< 0 2 µg/L	0 775 µg/L (J)	0 841 µg/L (J)	< 10 µg/L	< 0 2 µg/L	0 866 µg/L (J)	< 0 2 µg/L
Bromoform	< 0 25 - < 0 25 µg/L	1080 µg/L	4300 µg/L	< 0 25 µg/L	< 0 25 µg/L	0 376 µg/L (J)	< 11 5 µg/L	< 0 25 µg/L	0 521 µg/L (J)	< 0 25 µg/L
Bromomethane	< 0 5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 2 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Butyl benzyl phthalate	< 0 25 - 0 263 µg/L	1 µg/L	7800 µg/L	< 0 05 µg/L	< 0 05 µg/L	< 1 00 µg/L	< 1 25 µg/L	< 0 25 µg/L	< 0 25 µg/L	< 0 25 µg/L
C6-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 106 µg/L	1 580 µg/L	1 380 µg/L (J)	3 890 µg/L	< 106 µg/L	931 µg/L (J)	< 106 µg/L
Carbazole	< 0 5 - 0 526 µg/L	n/a †	n/a †	< 0 05 µg/L	< 0 05 µg/L	< 2 55 µg/L	< 2 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Carbon disulfide	< 0 2 - < 0 2 µg/L	n/a †	n/a †	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 10 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L
Carbon tetrachloride	< 0 25 - < 0 6 µg/L	46 µg/L	n/a †	< 0 25 µg/L	< 0 25 µg/L	< 0 25 µg/L	< 12 5 µg/L	< 0 25 µg/L	< 0 25 µg/L	< 0 25 µg/L
Chlorobenzene	< 0 2 - < 0 7 µg/L	2737 µg/L	1580 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 10 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L
Chloroethane	< 0 25 - < 0 7 µg/L	n/a †	175000 µg/L	< 0 25 µg/L	< 0 25 µg/L	0 25 µg/L	11 5 µg/L	< 0 25 µg/L	< 0 25 µg/L	< 0 25 µg/L
Chloroform	< 0 2 - < 0 7 µg/L	7637 µg/L	2550 µg/L	< 0 5 µg/L	15 1 µg/L	15 4 µg/L	91 5 µg/L (J)	< 0 5 µg/L	2 7 µg/L	< 0 5 µg/L
Chloromethane	< 0 2 - < 0 7 µg/L	n/a †	1850 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 10 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L
Chrysene	< 0 025 - 0 061 µg/L	2 52 µg/L	n/a †	< 0 025 µg/L	0 022 µg/L (J)	< 0 025 µg/L	< 0 110 µg/L	< 0 025 µg/L	0 06 µg/L (J)	< 0 025 µg/L
cis-1,2-Dichloroethene	< 0 2 - < 0 7 µg/L	n/a †	4150 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 10 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L
cis-1,3-Dichloropropene	< 0 2 - < 1 µg/L	n/a †	46 3 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 10 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L
Di-n-butyl phthalate	< 0 5 - 0 526 µg/L	52 4 µg/L	4490 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 55 µg/L	< 2 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Di-n-octyl phthalate	< 0 25 - 0 263 µg/L	n/a †	n/a †	< 0 25 µg/L	< 0 25 µg/L	< 1 28 µg/L	< 1 25 µg/L	< 0 25 µg/L	< 0 25 µg/L	< 0 25 µg/L
Dibenz(a,h)anthracene	< 0 026 - 0 026 µg/L	0 0113 µg/L	n/a †	< 0 026 µg/L	< 0 026 µg/L	< 0 026 µg/L	< 0 1e µg/L	< 0 026 µg/L	0 059 µg/L (J)	< 0 026 µg/L
Dibenzofuran	< 0 5 - 0 526 µg/L	n/a †	235 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Dibromochloromethane	< 0 2 - < 1 µg/L	153 µg/L	383 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 10 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L
Dibromomethane	< 0 25 - < 1 µg/L	n/a †	4900 µg/L	< 0 25 µg/L	< 0 25 µg/L	0 25 µg/L	11 5 µg/L	< 0 25 µg/L	< 0 25 µg/L	< 0 25 µg/L
Dichlorodifluoromethane	< 0 2 - < 0 6 µg/L	n/a †	97600 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 10 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L
Diethyl phthalate	< 0 5 - 0 526 µg/L	600 µg/L	307000 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 55 µg/L	< 2 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Dimethyl phthalate	< 0 5 - 0 526 µg/L	2000 µg/L	540000 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 55 µg/L	< 2 5 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 0 5 µg/L
Ethylbenzene	< 0 2 - < 0 7 µg/L	1867 µg/L	12600 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L	9 4 µg/L	< 0 2 µg/L	< 0 2 µg/L	< 0 2 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0 5 µg/L	< 0 5 µg/L	< 2 65 mg/L	0 723 mg/L (J)	< 0 255 mg/L	< 0 255 mg/L	0 288 mg/L (J)
Fluoranthene	< 0 013 - 0 102 µg/L	20 µg/L	n/a †	< 0 013 µg/L	< 0 013 µg/L	0 34 µg/L	< 0 078 µg/L	< 0 013 µg/L	0 263 µg/L	< 0 013 µg/L
Fluorene	< 0 041 - < 1 µg/L	70 µg/L	2110 µg/L	0 06 µg/L (J)	< 0 06 µg/L	< 0 06 µg/L	< 0 25 µg/L	< 0 06 µg/L	0 107 µg/L	< 0 06 µg/L

Detection Color Code

- Detected
- Detected Below RL
- Not Detected
- QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS006 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL available  
(R) QC Rejected for unreliable result  
(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 17, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS010	WS014	WS017	WS023
				PNTX1217X002 Level 2 Verified	PNTX1217X003 Level 2 Verified	PNTX1217X006 Level 2 Verified	PNTX1217X010 Level 2 Verified	PNTX1217X014 Level 2 Verified	PNTX1217X017 Level 2 Verified	PNTX1217X023 Level 2 Verified
Hexachlorobenzene	< 0.5 - 0.525 µg/L	0.00045 µg/L	n/a †	< 0.505 µg/L	< 0.51 µg/L	2.55 µg/L	2.5 µg/L	1.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - 0.525 µg/L	0.22 µg/L	6.9 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.50 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 1.6 µg/L	< 1.58 µg/L	7.55 µg/L	7.5 µg/L	4.5 µg/L	3.55 µg/L	4.55 µg/L
Hexachloroethane	< 0.5 - 0.525 µg/L	0.33 µg/L	n/a †	< 0.505 µg/L	< 0.51 µg/L	2.55 µg/L	2.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.048 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	< 0.013 µg/L	0.01 µg/L	0.014 µg/L	< 0.01 µg/L	0.085 µg/L (J)	< 0.01 µg/L
Isophorone	< 0.5 - 0.525 µg/L	16000 µg/L	10400 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.50 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - 0.6 µg/L	n/a †	8440 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	< 0.25 µg/L	< 0.25 µg/L	11.25 µg/L	11.25 µg/L	12.25 µg/L	12.25 µg/L	12.25 µg/L
m,p-Xylene	< 0.2 - 0.6 µg/L	n/a †	n/a †	< 0.6 µg/L						
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - 2.12 µg/L	13333 µg/L	3370 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.875 µg/L	0.875 µg/L	0.525 µg/L	0.525 µg/L	0.525 µg/L
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1600 µg/L	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	13.2 µg/L	13.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.525 µg/L	5.1 µg/L	1.98 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.50 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - 0.525 µg/L	50 µg/L	0.952 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.50 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.5 - 0.525 µg/L	60 µg/L	421 µg/L	< 0.505 µg/L	< 0.51 µg/L	2.55 µg/L	2.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2950 µg/L	< 1 µg/L	< 1 µg/L	11 µg/L	11 µg/L	11 µg/L	11 µg/L	11 µg/L
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	0.06 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.955 µg/L (J)	< 0.013 µg/L	0.082 µg/L (J)	0.014 µg/L (J)
Nitrobenzene	< 0.5 - 0.525 µg/L	1672 µg/L	248 µg/L	< 0.505 µg/L	< 0.51 µg/L	2.55 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.505 µg/L	< 0.51 µg/L	2.55 µg/L	2.5 µg/L	0.5 µg/L	0.5 µg/L	0.51 µg/L
o-Xylene	< 0.2 - 0.6 µg/L	n/a †	227000 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L	< 0.6 µg/L
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a †	< 1.5 mg/L						
Pentachlorophenol	< 0.5 - 0.6 µg/L	0.29 µg/L	9.32 µg/L	< 0.505 µg/L	< 0.51 µg/L	0.55 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	13.1 ng/L	13.1 ng/L	29.2 ng/L	29.2 ng/L	25.6 ng/L	11.97 ng/L	11.97 ng/L
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	1.4 ng/L	11.9 ng/L	7.95 ng/L (J)	8.47 ng/L	< 1.5 ng/L	1.2 ng/L	2.6 ng/L (J)
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	160 ng/L	< 0.6 ng/L	4.67 ng/L	1.80 ng/L	< 2.45 ng/L	177 ng/L	2.92 ng/L
Phenanthrene	< 0.013 - 0.048 µg/L	n/a †	1070 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.037 µg/L (J)
Phenol	< 0.5 - 0.558 µg/L	300000 µg/L	160000 µg/L	< 0.505 µg/L	< 0.51 µg/L	2.55 µg/L	2.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Pyrene	< 0.026 - 0.037 µg/L	30 µg/L	n/a †	< 0.026 µg/L	0.23 µg/L	0.168 µg/L	< 0.026 µg/L	< 0.026 µg/L	0.239 µg/L	< 0.026 µg/L
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	717 µg/L	< 1.6 µg/L	< 1.56 µg/L	7.55 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.56 µg/L
sec-Butylbenzene	< 0.2 - 0.6 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - 0.8 µg/L	n/a †	29500 µg/L	0.243 µg/L (J)	0.423 µg/L (J)	0.333 µg/L (J)	< 0.2 µg/L	0.226 µg/L (J)	0.209 µg/L (J)	0.24 µg/L (J)
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	43.5 µg/L	1.03 µg/L (J)
tert-Butylbenzene	< 0.2 - 0.6 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	148 µg/L	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	13.2 µg/L	13.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L	< 0.7 µg/L
Total Organic Carbon	< 550 - 3350 µg/L	n/a †	n/a †	27.8 mg/L	48.8 mg/L	48.8 mg/L	20.4 mg/L	10.3 mg/L	43.2 mg/L	10.1 mg/L
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a †	< 1.05 µg/L	6.97 µg/L	7.25 µg/L	1.830 µg/L (J)	< 1.05 µg/L	6.790 µg/L	< 1.05 µg/L
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	13.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - 0.6 µg/L	n/a †	280 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L						
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	49300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	6040000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - 1 µg/L	16.5 µg/L	n/a †	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	13.2 µg/L	13.2 µg/L	13.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL Available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

South 4 Group Fire

Surface Water Screening Values - December 18, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS017	WS023	Detection Color Code
				PNTX1218002 Level 2 Verified	PNTX1218003 Level 2 Verified	PNTX1218006 Level 2 Verified	PNTX1218017 Level 2 Verified	PNTX1218023 Level 2 Verified	
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.041 µg/L	<0.041 µg/L	<0.041 µg/L	<0.041 µg/L	<0.041 µg/L	Detected
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48800 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected Below RL
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Not Detected
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	QAQC Rejected
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	26.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	5299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2-Dichloroethane	<0.2 - <1 µg/L	264 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L	Detected				
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	9.57 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.9 µg/L	Detected				
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	535 µg/L	9750 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
2-Butanone	<0.2 - <0.8 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	3.75 µg/L (J)	3.98 µg/L (J)	2.31 µg/L (J)	<0.2 µg/L	Detected
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	Detected				
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5480 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1560 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2-Chlorotoluene	<0.2 - <0.8 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.041 µg/L	<0.041 µg/L	<0.041 µg/L	<0.041 µg/L	<0.041 µg/L	Detected
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	156 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,4-Dinitrophenol	<0.5 - <1.87 µg/L	360 µg/L	1270 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L (N)	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	Detected				
4-Chloro-3-methylphenol	<0.5 - <0.556 µg/L	2000 µg/L	820 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	Detected
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L	Detected				
4-Chlorotoluene	<0.2 - <0.8 µg/L	n/a †	2320 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	Detected
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	1.58 µg/L (J)	4.52 µg/L (J)	3.06 µg/L (J)	4.39 µg/L (J)	<0.2 µg/L	Detected
4-Nitroaniline	<0.8 - 1.538 µg/L	n/a †	966 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	Detected
4-Nitrophenol	<0.8 - <1.87 µg/L	n/a †	1120 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	Detected
4,6-Dinitro-2-methylphenol	<0.8 - <1.87 µg/L	30 µg/L	1100 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	<0.8 µg/L	Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS009 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(N) QC Rejected for unreliable result

(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 18, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS017	WS023	Detection Color Code
				PNTX1218X002 Level 2 Verified	PNTX1218X003 Level 2 Verified	PNTX1218X006 Level 2 Verified	PNTX1218X017 Level 2 Verified	PNTX1218X023 Level 2 Verified	
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	< 124 µg/L	7,580 µg/L	5,400 µg/L	< 127 µg/L	< 127 µg/L	Detected
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 124 µg/L	< 127 µg/L	< 127 µg/L	< 127 µg/L	< 127 µg/L	Detected Below RL
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.019 µg/L	< 0.020 µg/L	< 0.033 µg/L	< 0.033 µg/L	< 0.033 µg/L	Not Detected
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	< 0.041 µg/L	< 0.041 µg/L	1.34 µg/L	1.34 µg/L	< 0.041 µg/L	QAOC Rejected
Acetone	< 0.5 - 1.97 µg/L	n/a †	790000 µg/L	< 0.5 µg/L	24.7 µg/L	37.4 µg/L	20 µg/L	< 0.5 µg/L	Detected
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	Detected
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	Detected
Aniline	< 0.6 - 0.789 µg/L	n/a †	4630 µg/L	< 0.789 µg/L	< 0.789 µg/L	10.25 µg/L	10.25 µg/L	< 0.789 µg/L	Detected
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.041 µg/L	0.127 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	Detected
Benzene	< 0.2 - < 0.2 µg/L	561 µg/L	235 µg/L	< 0.2 µg/L	0.289 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Benzidine	< 1 - 2.63 µg/L	0.207 µg/L	0.156 µg/L	2.53 µg/L (R)	0.53 µg/L (R)	2.5 µg/L (R)	2.5 µg/L (R)	2.5 µg/L (R)	Detected
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	< 0.025 µg/L	0.055 µg/L (J)	0.051 µg/L (J)	0.024 µg/L (J)	< 0.025 µg/L	Detected
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	< 0.013 µg/L	0.04 µg/L (J)	0.024 µg/L (J)	0.024 µg/L (J)	< 0.013 µg/L	Detected
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	< 0.019 µg/L	0.056 µg/L (J)	0.029 µg/L (J)	< 0.019 µg/L	< 0.019 µg/L	Detected
Benzo(g,h,i)perylene	< 0.013 - 0.062 µg/L	n/a †	n/a †	< 0.013 µg/L	0.026 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	Detected
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a †	< 0.026 µg/L	Detected				
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 1.52 µg/L	< 1.51 µg/L	< 1.5 µg/L	< 1.5 µg/L	Detected
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.500 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.500 µg/L	0.5 µg/L	0.5 µg/L	< 0.5 µg/L	Detected
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.8 µg/L	< 0.5 µg/L	< 0.500 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.500 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.55 µg/L	n/a †	< 0.25 µg/L	< 0.250 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Detected
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	0.2 µg/L	< 0.2 µg/L	Detected
Bromochloromethane	< 0.2 - < 1.1 µg/L	n/a †	28600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	0.456 µg/L (J)	0.428 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	Detected
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Detected
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	562 µg/L	< 0.5 µg/L	< 0.500 µg/L	0.5 µg/L	0.5 µg/L	< 0.5 µg/L	Detected
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.250 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Detected
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	< 109 µg/L	2.972 µg/L	0.880 µg/L	4.590 µg/L	< 109 µg/L	Detected
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L	< 0.500 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	Detected				
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L	Detected				
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	< 0.25 µg/L	Detected
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	< 0.2 µg/L	0.4 µg/L	11.4 µg/L	11.4 µg/L	< 0.2 µg/L	Detected
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Chrysene	< 0.026 - 0.061 µg/L	2.52 µg/L	n/a †	< 0.026 µg/L	0.049 µg/L (J)	0.064 µg/L (J)	0.036 µg/L (J)	< 0.026 µg/L	Detected
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4150 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	0.2 µg/L	< 0.2 µg/L	Detected
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.500 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L	< 0.250 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	Detected
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	< 0.026 µg/L	Detected				
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	239 µg/L	< 0.5 µg/L	< 0.500 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Dibromochloromethane	< 0.2 - < 1 µg/L	153 µg/L	363 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.25 µg/L	0.25 µg/L	< 0.25 µg/L	Detected
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.500 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.500 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	0.2 µg/L	< 0.2 µg/L	Detected
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.265 mg/L	< 0.265 mg/L	0.21 mg/L (J)	Detected
Fluoranthene	< 0.013 - 0.102 µg/L	26 µg/L	n/a †	< 0.013 µg/L	0.038 µg/L	0.348 µg/L	0.325 µg/L	< 0.013 µg/L	Detected
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	< 0.041 µg/L	Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(R) QC Rejected for unreliable result

(J) Quantitative is approximate

# South 4 Group Fire

Surface Water Screening Values - December 18, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS017	WS023	Detection Color Code
				PNTX1218Y002 Level 2 Verified	PNTX1218Y003 Level 2 Verified	PNTX1218Y006 Level 2 Verified	PNTX1218Y017 Level 2 Verified	PNTX1218Y023 Level 2 Verified	
Hexachlorobenzene	< 0.5 - 0.525 µg/L	0.00045 µg/L	n/a †	< 0.505 µg/L	< 0.505 µg/L	13.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Hexachlorobutadiene	< 0.3 - 0.526 µg/L	0.22 µg/L	6.9 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected Below RL
Hexachlorocyclopentadiene	< 1 - 1.58 µg/L	11.6 µg/L	255 µg/L	< 1.60 µg/L	< 1.50 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Not Detected
Hexachloroethane	< 0.5 - 0.536 µg/L	0.33 µg/L	n/a †	< 0.505 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	QAQC Rejected
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.098 µg/L	0.013 µg/L	n/a †	< 0.013 µg/L	0.026 µg/L (J)	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	Detected
Isophorone	< 0.5 - 0.526 µg/L	16000 µg/L	10400 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Isopropylbenzene (Cumene)	< 0.2 - 0.8 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
m,p-Cresol	< 0.25 - 0.276 µg/L	n/a †	19500 µg/L	< 0.253 µg/L	< 0.253 µg/L	10.2 µg/L	13.2 µg/L	13.2 µg/L	Detected
m,p-Xylene	< 0.2 - 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L	Detected				
Methyl iodide	< 0.5 - 0.5 µg/L	n/a †	870 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Methylene chloride	< 0.2 - 0.212 µg/L	13333 µg/L	3370 µg/L	< 0.205 µg/L	< 0.205 µg/L	< 0.205 µg/L	< 0.205 µg/L	< 0.205 µg/L	Detected
n-Butylbenzene	< 0.2 - 0.7 µg/L	n/a †	1600 µg/L	< 0.2 µg/L	< 0.2 µg/L	13.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 µg/L	5.1 µg/L	1.98 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
n-Nitrosodimethylamine	< 0.5 - 0.526 µg/L	50 µg/L	0.962 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
n-Nitrosodiphenylamine	< 0.5 - 0.536 µg/L	60 µg/L	421 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
n-Propylbenzene	< 0.5 - 1 µg/L	n/a †	2550 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Naphthalene	< 0.013 - 0.2 µg/L	n/a †	2550 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	Detected
Nitrobenzene	< 0.5 - 0.526 µg/L	1673 µg/L	248 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
o-Cresol	< 0.5 - 0.5 µg/L	n/a †	19500 µg/L	< 0.505 µg/L	< 0.505 µg/L	13.2 µg/L	13.2 µg/L	13.2 µg/L	Detected
o-Xylene	< 0.2 - 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Oil and Grease	< 1500 - 1600 µg/L	n/a †	n/a ‡	< 1.8 mg/L	Detected				
Pentachlorophenol	< 0.5 - 0.5 µg/L	0.29 µg/L	9.32 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
PFHxS	< 1.37 - 1.64 ng/L	n/a †	n/a †	< 1.37 ng/L (J)	76.9 ng/L (J)	37.3 ng/L	43.1 ng/L	18 ng/L	Detected
PFOA	< 1.5 - 1.85 ng/L	n/a †	n/a †	< 1.5 ng/L	10.7 ng/L	10.3 ng/L	10.3 ng/L	2.37 ng/L (J)	Detected
PFOS	< 1.42 - 6 ng/L	n/a †	n/a †	< 1.42 ng/L (J)	60 ng/L	3.0 ng/L	1.93 ng/L	42 ng/L	Detected
Phenanthrene	< 0.013 - 0.048 µg/L	n/a †	1070 µg/L	< 0.013 µg/L	0.13 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	Detected
Phenol	< 0.5 - 0.558 µg/L	200000 µg/L	160000 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
Pyrene	< 0.026 - 0.037 µg/L	30 µg/L	n/a †	< 0.026 µg/L	0.26 µg/L	0.25 µg/L	0.236 µg/L	< 0.026 µg/L	Detected
Pyridine	< 0.5 - 1.56 µg/L	947 µg/L	717 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	Detected
sec-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Styrene	< 0.2 - 0.8 µg/L	n/a †	29500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 µg/L	10462 µg/L	5470 µg/L	< 0.2 µg/L	< 0.2 µg/L	37.5 µg/L	38.2 µg/L	28.3 µg/L	0.67 µg/L (J)
tert-Butylbenzene	< 0.2 - 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Tetrachloroethene	< 0.2 - 0.6 µg/L	280 µg/L	146 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	Detected
Toluene	< 0.2 - 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Total Organic Carbon	< 550 - 3350 µg/L	n/a †	n/a ‡	< 38.1 mg/L	< 0.7 mg/L	43.7 mg/L	40.5 mg/L	18.32 mg/L	Detected
Total TPH (C6-C9)	< 107 - 1103 µg/L	n/a †	n/a ‡	< 1.05 mg/L	< 1.57 mg/L	0.13 mg/L	11.400 mg/L	< 1.05 mg/L	Detected
trans-1,2-Dichloroethene	< 0.2 - 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	Detected
trans-1,3-Dichloropropene	< 0.2 - 0.1 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 µg/L	n/a †	n/a †	< 0.5 µg/L	Detected				
Trichloroethene	< 0.2 - 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Trichlorofluoromethane	< 0.2 - 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Trichlorotrifluoroethane	< 0.2 - 0.2 µg/L	n/a †	6040000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Vinyl acetate	< 0.2 - 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	Detected
Vinyl chloride	< 0.2 - 0.1 µg/L	16.5 µg/L	n/a †	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	10.2 µg/L	Detected
Xylene (total)	< 0.4 - 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS000 and WS003

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water Data Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

South 4 Group Fire  
Surface Water Screening Values - December 19, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPC <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017	WS023
				PNTX1218V002 Level 2 Verified	PNTX1218V003 Level 2 Verified	PNTX1218V006 Level 2 Verified	PNTX1218V009 Level 2 Verified	PNTX1218V010 Level 2 Verified	PNTX1218V017 Level 2 Verified	PNTX1218V023 Level 2 Verified
1-Methylnaphthalene	<0.041 - <0.045 µg/L	n/a †	4800 µg/L	<0.041 µg/L	<0.042 µg/L	<0.041 µg/L				
1,1-Dichloroethane	<0.2 - <0.9 µg/L	n/a †	48600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloroethene	<0.2 - <1 µg/L	551.14 µg/L	36600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1-Dichloropropene	<0.2 - <0.8 µg/L	n/a †	62.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1-Trichloroethane	<0.2 - <0.9 µg/L	784354 µg/L	47200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,1,2-Tetrachloroethane	<0.2 - <0.9 µg/L	n/a †	312 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2-Trichloroethane	<0.2 - <1 µg/L	166 µg/L	325 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,1,2,2-Tetrachloroethane	<0.2 - <0.9 µg/L	25.35 µg/L	33.9 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromo-3-chloropropane	<0.2 - <1 µg/L	n/a †	11.5 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dibromoethane	<0.2 - <1 µg/L	4.24 µg/L	0.283 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichlorobenzene	<0.2 - 0.526 µg/L	5299 µg/L	11300 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethane	<0.2 - <1 µg/L	354 µg/L	136 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Dichloroethene(Total)	<0.4 - <0.4 µg/L	n/a †	n/a †	<0.4 µg/L						
1,2-Dichloropropane	<0.2 - <0.9 µg/L	259 µg/L	189 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	0.572 µg/L (J)	<0.2 µg/L
1,2,3-Trichloropropane	<0.2 - <0.9 µg/L	n/a †	1.71 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 - 0.526 µg/L	0.076 µg/L	656 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2,4-Trimethylbenzene	<0.2 - <0.8 µg/L	n/a †	3250 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,2-Diphenylhydrazine/Azobenzene	<0.5 - 0.526 µg/L	2 µg/L	9.52 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Butadiene	<0.5 - <0.9 µg/L	n/a †	n/a †	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	38.1 µg/L (J)	<0.5 µg/L	<0.5 µg/L
1,3-Dichlorobenzene	<0.2 - 0.526 µg/L	535 µg/L	9750 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
1,3-Dichloropropane	<0.2 - <1 µg/L	n/a †	129 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,3,5-Trimethylbenzene	<0.2 - <0.6 µg/L	n/a †	9050 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
1,4-Dichlorobenzene	<0.2 - 0.526 µg/L	900 µg/L	196 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Butanone	<0.2 - <0.8 µg/L	332000 µg/L	491000 µg/L	<0.2 µg/L	2.28 µg/L (J)	2.73 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (P)	1 µg/L (P)	1 µg/L (P)	1 µg/L (P)	25 µg/L (K)	1 µg/L (K)	1 µg/L (K)
2-Chloronaphthalene	<0.5 - 0.526 µg/L	1000 µg/L	5490 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorophenol	<0.5 - <1 µg/L	800 µg/L	1590 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Chlorotoluene	<0.2 - <0.8 µg/L	n/a †	3420 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2-Hexanone	<0.5 - <0.5 µg/L	n/a †	33400 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Methylnaphthalene	<0.041 - <1 µg/L	n/a †	276 µg/L	<0.041 µg/L	<0.042 µg/L	<0.041 µg/L				
2-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	196 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2-Nitrophenol	<0.5 - <0.8 µg/L	n/a †	686 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,2-Dichloropropane	<0.2 - <0.7 µg/L	n/a †	163 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
2,4-Dichlorophenol	<0.5 - <0.7 µg/L	80 µg/L	739 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dimethylphenol	<0.5 - <1 µg/L	8436 µg/L	4740 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4-Dinitrophenol	<0.8 - <1.87 µg/L	360 µg/L	1270 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L
2,4-Dinitrotoluene	<0.5 - 0.526 µg/L	17 µg/L	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,5-Trichlorophenol	<0.5 - <0.6 µg/L	1867 µg/L	14000 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,4,6-Trichlorophenol	<0.5 - <0.8 µg/L	28 µg/L	485 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
2,6-Dinitrotoluene	<0.5 - 0.526 µg/L	n/a †	30 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3-Nitroaniline	<0.5 - 0.526 µg/L	n/a †	177 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
3,3'-Dichlorobenzidine	<0.5 - 0.526 µg/L	2.24 µg/L	20.7 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Eromophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L						
4-Chloro-3-methylphenol	<0.5 - <0.526 µg/L	2000 µg/L	820 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chloroaniline	<0.5 - 0.526 µg/L	n/a †	2140 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
4-Chlorophenyl phenyl ether	<0.5 - 0.526 µg/L	n/a †	n/a †	<0.5 µg/L						
4-Chlorotoluene	<0.2 - <0.8 µg/L	n/a †	2120 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Isopropyltoluene	<0.2 - <0.6 µg/L	n/a †	3700 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
4-Methyl-2-pentanone	<0.2 - <0.2 µg/L	n/a †	52700 µg/L	2.82 µg/L (J)	3.93 µg/L (J)	5.42 µg/L (J)	<0.2 µg/L	95.6 µg/L (J)	3.00 µg/L (J)	<0.2 µg/L
4-Nitroaniline	<0.8 - 1.53 µg/L	n/a †	966 µg/L	<1.53 µg/L	<1.53 µg/L	<1.53 µg/L	<1.53 µg/L	<1.53 µg/L	<1.53 µg/L	<1.53 µg/L
4-Nitrophenol	<0.8 - <1.87 µg/L	n/a †	1120 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L
4,6-Dinitro-2-methylphenol	<0.8 - <1.87 µg/L	30 µg/L	30 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L	<1.87 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water KIEEL Available

‡ No Contact Recreation PCL available

(K) QC Rejected for unreliable result

(J) Quantitative is approximate

South 4 Group Fire  
Surface Water Screening Values - December 19, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017	WS023
				PNTX1218X002 Level 2 Verified	PNTX1218X003 Level 2 Verified	PNTX1218X006 Level 2 Verified	PNTX1218X009 Level 2 Verified	PNTX1218X010 Level 2 Verified	PNTX1218X017 Level 2 Verified	PNTX1218X023 Level 2 Verified
>C12-C28	< 124 - < 127 µg/L	n/a †	n/a †	2.32 µg/L	1.95 µg/L	< 1.2 µg/L	< 1.6 µg/L	< 1.7 µg/L	< 1.7 µg/L	< 1.1 µg/L
>C28-C35	< 124 - < 127 µg/L	n/a †	n/a †	< 1.2 µg/L						
Acenaphthene	< 0.019 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.02 µg/L	< 0.02 µg/L	< 0.03 µg/L	< 0.03 µg/L	0.024 µg/L (J)	< 0.03 µg/L	< 0.03 µg/L
Acenaphthylene	< 0.041 - < 1 µg/L	n/a †	3260 µg/L	< 0.04 µg/L	< 0.04 µg/L	1.75 µg/L	< 0.04 µg/L	0.197 µg/L (J)	1.65 µg/L	< 0.04 µg/L
Acetone	< 0.5 - 1.97 µg/L	n/a †	780000 µg/L	1.7 µg/L	15 µg/L	24.7 µg/L	1.91 µg/L (J)	2.77 µg/L	16 µg/L	2.01 µg/L (J)
Acrolein	< 2 - < 2.5 µg/L	400 µg/L	425 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - 0.785 µg/L	n/a †	4630 µg/L	< 0.7 µg/L	< 0.7 µg/L	10.75 µg/L	10.75 µg/L	17.9 µg/L	< 0.7 µg/L	< 0.7 µg/L
Anthracene	< 0.041 - < 0.5 µg/L	1517 µg/L	10700 µg/L	< 0.04 µg/L	< 0.04 µg/L	0.147 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L
Benzene	< 0.2 - < 0.7 µg/L	591 µg/L	235 µg/L	< 0.2 µg/L	0.34 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	10.5 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Benzidine	< 1 - 2.63 µg/L	0.107 µg/L	0.156 µg/L	< 2.6 µg/L	< 2.6 µg/L	< 2.6 µg/L	< 2.6 µg/L	< 2.6 µg/L	< 2.6 µg/L	< 2.6 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a †	0.076 µg/L (J)	0.054 µg/L (J)	0.073 µg/L (J)	< 0.02 µg/L	< 0.02 µg/L	0.042 µg/L (J)	< 0.02 µg/L
Benzo(a)pyrene	< 0.013 - 0.079 µg/L	0.0025 µg/L	n/a †	0.07 µg/L (J)	0.059 µg/L (J)	0.059 µg/L (J)	< 0.01 µg/L	< 0.01 µg/L	0.022 µg/L (J)	< 0.01 µg/L
Benzo(b)fluoranthene	< 0.019 - 0.118 µg/L	0.013 µg/L	n/a †	0.073 µg/L (J)	0.056 µg/L (J)	0.044 µg/L (J)	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L
Benzo(g,h,i)perylene	< 0.013 - 0.042 µg/L	n/a †	n/a †	0.074 µg/L (J)	0.039 µg/L (J)	0.046 µg/L (J)	< 0.01 µg/L	0.056 µg/L (J)	< 0.01 µg/L	< 0.01 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	n/a †	0.13 µg/L	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L	< 0.02 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.5 µg/L	< 1.5 µg/L					
Benzyl alcohol	< 0.5 - 0.526 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	1.6 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethoxy)methane	< 0.5 - 0.526 µg/L	n/a †	12.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	13 µg/L	13 µg/L	13 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroethyl)ether	< 0.5 - 0.526 µg/L	42.85 µg/L	25.9 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Chloroisopropyl)ether	< 0.5 - 0.526 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.25 - 0.263 µg/L	7.85 µg/L	n/a †	< 0.25 µg/L						
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 1.1 µg/L	n/a †	28600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	1.21 µg/L (J)	1.69 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	1.84 µg/L (J)	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	1.42 µg/L (J)	1.81 µg/L (J)	< 0.25 µg/L	< 0.25 µg/L	1.81 µg/L (J)	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.25 - 0.263 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
CG-C12	< 107 - < 109 µg/L	n/a †	n/a †	454 µg/L (J)	1.55 µg/L	< 1.75 µg/L	< 1.75 µg/L	5.740 µg/L	294 µg/L (J)	< 109 µg/L
Carbazole	< 0.5 - 0.526 µg/L	n/a †	n/a †	< 0.5 µg/L						
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a †	< 0.2 µg/L						
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a †	< 0.25 µg/L						
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	10.25 µg/L	10.25 µg/L	14.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7637 µg/L	2250 µg/L	0.574 µg/L (J)	13 µg/L	17 µg/L	< 0.2 µg/L	84.9 µg/L (J)	5 µg/L	< 0.2 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.026 - 0.042 µg/L	2.52 µg/L	n/a †	0.025 µg/L (J)	0.045 µg/L (J)	0.073 µg/L (J)	< 0.02 µg/L	< 0.02 µg/L	0.035 µg/L (J)	< 0.02 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4160 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.5 - 0.526 µg/L	52.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Di-n-octyl phthalate	< 0.25 - 0.263 µg/L	n/a †	n/a †	< 0.25 µg/L						
Dibenz(a,h)anthracene	< 0.026 - 0.026 µg/L	0.0013 µg/L	n/a †	0.043 µg/L (J)	< 0.02 µg/L					
Dibenzofuran	< 0.5 - 0.526 µg/L	n/a †	235 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.444 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	0.494 µg/L (J)	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	10.25 µg/L	10.25 µg/L	14.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.6 µg/L	n/a †	97600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.5 - 0.526 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Dimethyl phthalate	< 0.5 - 0.526 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	10.2 µg/L	10.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Ethylene Glycol	< 265 - 738 µg/L	1680000 µg/L	1840000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	0.467 mg/L (J)	< 0.5 µg/L	0.477 mg/L (J)	0.46 mg/L (J)
Fluoranthene	< 0.013 - 0.102 µg/L	20 µg/L	n/a †	0.037 µg/L (J)	0.038 µg/L	0.038 µg/L	< 0.01 µg/L	0.092 µg/L (J)	0.06 µg/L	< 0.01 µg/L
Fluorene	< 0.041 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process  
<sup>2</sup> Range from background samples collected at WS009 and WS009  
<sup>3</sup> Surface Water Risk Based Exposure Limit  
<sup>4</sup> Tier 1 Contact Recreation Water PCL  
† No Surface Water KIEEL Available  
‡ No Contact Recreation PCL Available  
(R) QC Rejected for unreliable result  
(J) Quantitative is approximate

South 4 Group Fire

Surface Water Screening Values - December 19, 2019<sup>1</sup>

Analyte	Background Range <sup>2</sup>	SWRSEL <sup>3</sup>	CRWPCL <sup>4</sup>	WS002	WS003	WS006	WS009	WS010	WS017	WS023
				PNTX1218X002 Level 2 Verified	PNTX1218X003 Level 2 Verified	PNTX1218X006 Level 2 Verified	PNTX1218X009 Level 2 Verified	PNTX1218X010 Level 2 Verified	PNTX1218X017 Level 2 Verified	PNTX1218X023 Level 2 Verified
Hexachlorobenzene	< 0.5 - 0.525 ug/L	0.00045 ug/L	n/a †	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
Hexachlorobutadiene	< 0.3 - 0.526 ug/L	0.22 ug/L	6.9 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
Hexachlorocyclopentadiene	< 1 - 1.58 ug/L	11.6 ug/L	255 ug/L	< 1 ug/L	< 1.03 ug/L	< 1.03 ug/L	< 1.03 ug/L	< 1.03 ug/L	< 1.03 ug/L	< 1.03 ug/L
Hexachloroethane	< 0.5 - 0.536 ug/L	0.33 ug/L	n/a †	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
Indeno(1,2,3-cd)pyrene	< 0.013 - 0.048 ug/L	0.013 ug/L	n/a †	0.072 ug/L (J)	0.025 ug/L (J)	0.032 ug/L (J)	< 0.01 ug/L	< 0.01 ug/L	< 0.01 ug/L	< 0.01 ug/L
Isophorone	< 0.5 - 0.526 ug/L	16000 ug/L	10400 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
Isopropylbenzene (Cumene)	< 0.2 - 0.5 ug/L	n/a †	n/a †	< 0.2 ug/L						
m,p-Cresol	< 0.25 - 0.276 ug/L	n/a †	19500 ug/L	< 0.25 ug/L	< 0.25 ug/L	< 0.25 ug/L	< 0.25 ug/L	1.17 ug/L (J)	< 0.25 ug/L	< 0.25 ug/L
m,p-Xylene	< 0.2 - 0.2 ug/L	n/a †	n/a †	< 0.2 ug/L						
Methyl iodide	< 0.5 - 0.5 ug/L	n/a †	670 ug/L	< 0.5 ug/L	< 0.5 ug/L	< 0.5 ug/L	< 0.5 ug/L	< 0.5 ug/L	< 0.5 ug/L	< 0.5 ug/L
Methylene chloride	< 0.2 - 0.212 ug/L	13333 ug/L	3370 ug/L	< 0.2 ug/L	< 0.212 ug/L	< 0.212 ug/L	< 0.212 ug/L	< 0.212 ug/L	< 0.212 ug/L	< 0.212 ug/L
n-Butylbenzene	< 0.2 - 0.2 ug/L	n/a †	1600 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
n-Nitrosodi-n-propylamine	< 0.5 - 0.526 ug/L	5.1 ug/L	1.98 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
n-Nitrosodimethylamine	< 0.5 - 0.526 ug/L	50 ug/L	0.962 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
n-Nitrosodiphenylamine	< 0.5 - 0.536 ug/L	60 ug/L	421 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
n-Propylbenzene	< 0.5 - 0.5 ug/L	n/a †	2550 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
Naphthalene	< 0.013 - 0.2 ug/L	n/a †	2550 ug/L	< 0.013 ug/L	< 0.013 ug/L	< 0.013 ug/L	< 0.013 ug/L	0.259 ug/L (J)	< 0.013 ug/L	< 0.013 ug/L
Nitrobenzene	< 0.5 - 0.526 ug/L	1673 ug/L	248 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
o-Cresol	< 0.5 - 0.5 ug/L	n/a †	19500 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
o-Xylene	< 0.2 - 0.2 ug/L	n/a †	227000 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Oil and Grease	< 1500 - 0.1600 ug/L	n/a †	n/a †	< 1.5 ug/L						
Pentachlorophenol	< 0.5 - 0.5 ug/L	0.29 ug/L	9.32 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
PFHxS	< 1.37 - 1.64 ug/L	n/a †	n/a †	< 1.37 ug/L						
PFOA	< 1.5 - 1.85 ug/L	n/a †	n/a †	< 1.5 ug/L						
PFOS	< 1.42 - 6 ug/L	n/a †	n/a †	< 1.42 ug/L						
Phenanthrene	< 0.013 - 0.048 ug/L	n/a †	1070 ug/L	0.045 ug/L (J)	0.154 ug/L	0.063 ug/L (J)	< 0.013 ug/L	0.069 ug/L (J)	< 0.013 ug/L	< 0.013 ug/L
Phenol	< 0.5 - 0.558 ug/L	300000 ug/L	160000 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
Pyrene	< 0.026 - 0.037 ug/L	30 ug/L	n/a †	0.045 ug/L (J)	0.042 ug/L	0.244 ug/L	< 0.026 ug/L	0.37 ug/L (J)	< 0.026 ug/L	< 0.026 ug/L
Pyridine	< 0.5 - 1.56 ug/L	947 ug/L	717 ug/L	< 0.5 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L	< 0.51 ug/L
sec-Butylbenzene	< 0.2 - 0.5 ug/L	n/a †	1950 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Styrene	< 0.2 - 0.5 ug/L	n/a †	29500 ug/L	< 0.2 ug/L	0.204 ug/L (J)	< 0.2 ug/L	< 0.2 ug/L	4.76 ug/L	0.217 ug/L (J)	< 0.2 ug/L
tert-Butyl methyl ether (MTBE)	< 0.2 - 0.2 ug/L	n/a †	10462 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
tert-Butylbenzene	< 0.2 - 0.5 ug/L	n/a †	1400 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Tetrachloroethene	< 0.2 - 0.5 ug/L	280 ug/L	148 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Toluene	< 0.2 - 0.7 ug/L	1000 ug/L	18500 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Total Organic Carbon	< 550 - 3350 ug/L	n/a †	n/a †	< 550 ug/L						
Total TPH (C6-C9)	< 107 - 0.103 ug/L	n/a †	n/a †	< 107 ug/L	1.480 ug/L (J)	< 107 ug/L	< 107 ug/L	5.740 ug/L	294 ug/L (J)	< 107 ug/L
trans-1,2-Dichloroethene	< 0.2 - 0.5 ug/L	4000 ug/L	6950 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
trans-1,3-Dichloropropene	< 0.2 - 0.2 ug/L	n/a †	250 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
trans-1,4-Dichloro-2-butene	< 0.5 - 0.5 ug/L	n/a †	n/a †	< 0.5 ug/L						
Trichloroethene	< 0.2 - 0.7 ug/L	71.9 ug/L	1010 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Trichlorofluoromethane	< 0.2 - 0.2 ug/L	n/a †	43500 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Trichlorotrifluoroethane	< 0.2 - 0.2 ug/L	n/a †	600000 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Vinyl acetate	< 0.2 - 0.2 ug/L	n/a †	748000 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Vinyl chloride	< 0.2 - 0.1 ug/L	11.3 ug/L	16.5 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L	< 0.2 ug/L
Xylene (total)	< 0.4 - 0.1 ug/L	n/a †	24000 ug/L	< 0.4 ug/L	< 0.4 ug/L	< 0.4 ug/L	< 0.4 ug/L	< 0.4 ug/L	< 0.4 ug/L	< 0.4 ug/L

Detection Color Code  
 Detected  
 Detected Below RL  
 Not Detected  
 QA/QC Rejected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> Range from background samples collected at WS006 and WS009

<sup>3</sup> Surface Water Risk Based Exposure Limit

<sup>4</sup> Tier 1 Contact Recreation Water PCL

† No Surface Water DSEL Available

‡ No Contact Recreation PCL available

(P) QC Rejected for unreliable result

(J) Quantization is approximate

# Attachment D

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## Daily Drinking Water Sampling Results

# South 4 Group Fire

Drinking Water Sample Results - December 17, 2019<sup>1</sup>

Analyte	MCL <sup>2</sup>	WS008	Detection Color Code
		PKTYL217D-W003 Pending Validation	 Detected  Not Detected
1,1-Dichloroethane	n/a †	<0.25 ug/L	Detected
1,1-Dichloroethene	7 ug/L	<0.25 ug/L	Detected
1,1-Dichloropropene	n/a †	<0.25 ug/L	Detected
1,1,1-Trichloroethane	200 ug/L	<0.25 ug/L	Detected
1,1,1,2-Tetrachloroethane	n/a †	<0.25 ug/L	Detected
1,1,2-Trichloroethane	5 ug/L	<0.25 ug/L	Detected
1,1,2-Trichlorotrifluoroethane	n/a †	<0.25 ug/L	Detected
1,1,2,2-Tetrachloroethane	n/a †	<0.25 ug/L	Detected
1,2-Dibromoethane (EDB)	n/a †	<0.25 ug/L	Detected
1,2-Dichlorobenzene	600 ug/L	<0.25 ug/L	Detected
1,2-Dichloroethane	5 ug/L	<0.25 ug/L	Detected
1,2-Dichloropropane	5 ug/L	<0.25 ug/L	Detected
1,2,3-Trichlorobenzene	n/a †	<0.25 ug/L	Detected
1,2,3-Trichloropropane	n/a †	<0.25 ug/L	Detected
1,2,3-Trimethylbenzene	n/a †	<0.25 ug/L	Detected
1,2,4-Trichlorobenzene	70 ug/L	<0.25 ug/L	Detected
1,2,4-Trimethylbenzene	70 ug/L	<0.25 ug/L	Detected
1,3-Dichlorobenzene	n/a †	<0.25 ug/L	Detected
1,3-Dichloropropane	n/a †	<0.25 ug/L	Detected
1,3,5-Trimethylbenzene	n/a †	<0.25 ug/L	Detected
1,4-Dichlorobenzene	75 ug/L	<0.25 ug/L	Detected
2-Butanone (MEK)	n/a †	<0.25 ug/L	Detected
2-Chlorobiphenyl	90 ug/L	<0.25 ug/L	Detected
2-Chlorotoluene	n/a †	<0.25 ug/L	Detected
2,2-Dichloropropane	n/a †	<0.25 ug/L	Detected
4-Chlorotoluene	n/a †	<0.25 ug/L	Detected
Acetone	n/a †	<0.25 ug/L	Detected
Aldrin	n/a †	<0.25 ug/L	Detected
Atrazine	2 ug/L	<0.25 ug/L	Detected
Benzene	5 ug/L	<0.25 ug/L	Detected
Benzo(a)pyrene	0.2 ug/L	<0.25 ug/L	Detected
bis(2-Ethylhexyl)adipate	400 ug/L	<0.25 ug/L	Detected
bis(2-Ethylhexyl)phthalate	5 ug/L	<0.25 ug/L	Detected
Bromobenzene	n/a †	<0.25 ug/L	Detected
Bromochloromethane	n/a †	<0.25 ug/L	Detected
Bromodichloromethane	n/a †	<0.25 ug/L	Detected
Bromoform	n/a †	<0.25 ug/L	Detected
Bromomethane	n/a †	<0.25 ug/L	Detected
Butachlor	n/a †	<0.25 ug/L	Detected
Butylbenzylphthalate	n/a †	<0.25 ug/L	Detected
Carbon tetrachloride	5 ug/L	<0.25 ug/L	Detected
Chlorobenzene	300 ug/L	<0.25 ug/L	Detected
Chloroethane	n/a †	<0.25 ug/L	Detected
Chloroform	n/a †	<0.25 ug/L	Detected
Chloromethane	n/a †	<0.25 ug/L	Detected
cis-1,2-Dichloroethene	70 ug/L	<0.25 ug/L	Detected
Di-n-butylphthalate	n/a †	<0.25 ug/L	Detected
Dibromochloromethane	n/a †	<0.25 ug/L	Detected
Dibromomethane	n/a †	<0.25 ug/L	Detected
Dichlorodifluoromethane	n/a †	<0.25 ug/L	Detected
Dieldrin	n/a †	<0.25 ug/L	Detected
Diethylphthalate	n/a †	<0.25 ug/L	Detected
Dimethylphthalate	n/a †	<0.25 ug/L	Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process.

<sup>2</sup> FICED Drinking Water Maximum Contaminant Level

† No MCL Available

(R) QC Rejected for unreliable result

(.) Quantification is approximate

# South 4 Group Fire

Drinking Water Sample Results - December 17, 2019<sup>1</sup>

Analyte	MCL <sup>2</sup>	WS008	Detection Color Code
		PK7Y1217D-W003	█ Detected █ Not Detected
Ethylbenzene	700 µg/L	<0.25 µg/L	█ Not Detected
Fluorene	n/a †	<0.047 µg/L	█ Not Detected
Hexachloro-1,3-butadiene	n/a †	<0.05 µg/L	█ Not Detected
Indeno(1,2,3-cd)pyrene	n/a †	<0.028 µg/L	█ Not Detected
Isopropylbenzene (Cumene)	n/a †	<0.40 µg/L	█ Not Detected
m&p-Xylene	n/a †	<0.20 µg/L	█ Not Detected
Methyl-tert-butyl ether	n/a †	<0.05 µg/L	█ Not Detected
Methylene Chloride	n/a †	<0.48 µg/L	█ Not Detected
Metolachlor	n/a †	<0.45 µg/L	█ Not Detected
Metribuzin	n/a †	<0.18 µg/L	█ Not Detected
Molinate	n/a †	<0.37 µg/L	█ Not Detected
n-Butylbenzene	n/a †	<0.25 µg/L	█ Not Detected
n-Propylbenzene	n/a †	<0.40 µg/L	█ Not Detected
Naphthalene	n/a †	<0.08 µg/L	█ Not Detected
o-Xylene	20 µg/L	<0.25 µg/L	█ Not Detected
Octachlorobiphenyl	n/a †	<0.1 µg/L	█ Not Detected
p-Isopropyltoluene	n/a †	<0.20 µg/L	█ Not Detected
Pentachlorobiphenyl	n/a †	<0.040 µg/L	█ Not Detected
Phenanthrene	n/a †	<0.04 µg/L	█ Not Detected
Propachlor	n/a †	<0.45 µg/L	█ Not Detected
Pyrene	n/a †	<0.037 µg/L	█ Not Detected
sec-Butylbenzene	n/a †	<0.05 µg/L	█ Not Detected
Styrene	100 µg/L	<0.25 µg/L	█ Not Detected
tert-Butylbenzene	n/a †	<0.40 µg/L	█ Not Detected
Tetrachlorobiphenyl	n/a †	<0.08 µg/L	█ Not Detected
Tetrachloroethene	5 µg/L	<0.25 µg/L	█ Not Detected
Thiobencarb	n/a †	<0.51 µg/L	█ Not Detected
Toluene	1000 µg/L	<0.20 µg/L	█ Not Detected
Total Trihalomethanes (Calc.)	80 µg/L	50.0 µg/L	█ Detected
trans-1,2-Dichloroethene	100 µg/L	<0.05 µg/L	█ Not Detected
trans-1,3-Dichloropropene	n/a †	<0.40 µg/L	█ Not Detected
trans-Nonachlor	n/a †	<0.18 µg/L	█ Not Detected
Trichloroethene	5 µg/L	<0.05 µg/L	█ Not Detected
Trichlorofluoromethane	n/a †	<0.25 µg/L	█ Not Detected
Vinyl chloride	2 µg/L	<0.20 µg/L	█ Not Detected
Xylene (Total)	n/a †	<0.08 µg/L	█ Not Detected

<sup>1</sup> The data presented is preliminary, and has not undergone the full QA/QC process

<sup>2</sup> TCEQ Drinking Water Maximum Contaminant Level

† No MCL Available

(R) QC selected for unreliable result

(A) Quantitation is approximate

# Attachment E

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## Asbestos Water Sampling Results

# South 4 Group Fire

Asbestos Water Results - Results through Dec 11, 2019\*

Location Code	Primary Identifier	Validation Level	Screening Value†	Asbestos
WS001	PNTX1130V001ESMB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1130X001ESMA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1130X001ESMB	Pending Validation	7 MF/L	2.10 MF/L Chrysotile
	PNTX1201X001EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1201X001ESMB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1202X001EMSA	Pending Validation	7 MF/L	5.40 MF/L Chrysotile
	PNTX1202X001ESMB	Pending Validation	7 MF/L	< 5.40 MF/L
	PNTX1203V001ESMB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1203X001EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1203X001ESMB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1204X001EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1204X001ESMB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1205X001EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1205X001ESMB	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1206X001EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1206X001ESMS	Pending Validation	7 MF/L	< 1.70 MF/L
	PNTX1206X001EMSMSD	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1206X001ESMB	Pending Validation	7 MF/L	< 2.60 MF/L
	PNTX1207X001EMS	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1208X001EMSA	Pending Validation	7 MF/L	< 1.70 MF/L
PNTX1208X001ESMB	Pending Validation	7 MF/L	< 5.30 MF/L	
PNTX1209X001EMSA	Pending Validation	7 MF/L	< 1.10 MF/L	
WS002	PNTX1130X002ESMA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1130X002ESMB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1201X002EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1201X002ESMB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1202X002EMSA	Pending Validation	7 MF/L	< 5.40 MF/L
	PNTX1202X002ESMB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1202X002EMSMBMS	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1202X002EMSMBMSD	Pending Validation	7 MF/L	< 1.10 MF/L

\* The data presented is preliminary, and has not undergone the full QA/QC process. Not all results received.

† Drinking Water MCL

### Screening Comparison Color Code

- Asbestos Detected
- Asbestos Not Detected
- Detected Above Level

# South 4 Group Fire

Asbestos Water Results - Results through Dec 11, 2019\*

Location Code	Primary Identifier	Validation Level	Screening Value†	Asbestos
WS002	PNTX1203X002EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1203X002EMSB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1204X002EMSA	Pending Validation	7 MF/L	< 0.53 MF/L
	PNTX1204X002EMSB	Pending Validation	7 MF/L	< 0.53 MF/L
	PNTX1205X002EMSA	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1205X002EMSB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1206X002EMSA	Pending Validation	7 MF/L	< 0.53 MF/L
	PNTX1206X002EMSB	Pending Validation	7 MF/L	< 1.00 MF/L
	PNTX1207X002EMS	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1208X002EMSA	Pending Validation	7 MF/L	< 2.60 MF/L
	PNTX1208X002EMSB	Pending Validation	7 MF/L	< 1.80 MF/L
	PNTX1209X002EMSA	Pending Validation	7 MF/L	< 0.53 MF/L
	PNTX1210X002EMS	Pending Validation	7 MF/L	< 1.50 MF/L
	PNTX1211X002EMS	Pending Validation	7 MF/L	< 0.53 MF/L
WS003	PNTX1129X003ESM	Pending Validation	7 MF/L	< 13.00 MF/L
	PNTX1130X003ESMA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1130X003ESMB	Pending Validation	7 MF/L	1.10 MF/L Chrysotile
	PNTX1201V003EMSB	Pending Validation	7 MF/L	11.00 MF/L Chrysotile
	PNTX1201X003EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1201X003EMSB	Pending Validation	7 MF/L	< 15.00 MF/L
	PNTX1202X003EMSA	Pending Validation	7 MF/L	< 11.00 MF/L
	PNTX1202X003EMSB	Pending Validation	7 MF/L	< 5.40 MF/L
	PNTX1203X003EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1203X003EMSB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1204X003EMSA	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1204X003EMSB	Pending Validation	7 MF/L	< 1.80 MF/L
	PNTX1205X003EMSA	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1205X003EMSB	Pending Validation	7 MF/L	< 11.50 MF/L
PNTX1206X003EMSA	Pending Validation	7 MF/L	< 2.50 MF/L	
PNTX1206X003EMSB	Pending Validation	7 MF/L	< 1.00 MF/L	

\* The data presented is preliminary, and has not undergone the full QA/QC process. Not all results received.

† Drinking Water MCL

### Screening Comparison Color Code

- Asbestos Detected
- Asbestos Not Detected
- Detected Above Level

# South 4 Group Fire

Asbestos Water Results - Results through Dec 11, 2019\*

Location Code	Primary Identifier	Validation Level	Screening Value†	Asbestos
WS003	PNTX1207V003EMS	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1207X003EMS	Pending Validation	7 MF/L	1.10 MF/L Chrysotile
	PNTX1208X003EMSA	Pending Validation	7 MF/L	< 2.60 MF/L
	PNTX1208X003EMSB	Pending Validation	7 MF/L	< 5.20 MF/L
	PNTX1209X003EMSA	Pending Validation	7 MF/L	< 1.70 MF/L
	PNTX1210V003EMS	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1210X003EMS	Pending Validation	7 MF/L	< 5.20 MF/L
	PNTX1211X003EMS	Pending Validation	7 MF/L	< 11.0 MF/L
WS004	PNTX1130X004ESMA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1130X004ESMB	Pending Validation	7 MF/L	< 1.60 MF/L
	PNTX1130X004ESMBMS	Pending Validation	7 MF/L	< 0.50 MF/L
	PNTX1130X004ESMBMSD	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1201X004EMSA	Pending Validation	7 MF/L	< 5.40 MF/L
	PNTX1201X004EMSB	Pending Validation	7 MF/L	< 15.00 MF/L
	PNTX1202X004EMSA	Pending Validation	7 MF/L	< 5.40 MF/L
	PNTX1202X004EMSB	Pending Validation	7 MF/L	< 1.30 MF/L
	PNTX1205X004EMSA	Pending Validation	7 MF/L	< 1.80 MF/L
	PNTX1203X004EMSB	Pending Validation	7 MF/L	< 5.40 MF/L
	PNTX1204X004EMSA	Pending Validation	7 MF/L	< 1.30 MF/L
	PNTX1204X004EMSB	Pending Validation	7 MF/L	< 1.80 MF/L
	PNTX1205V004EMSA	Pending Validation	7 MF/L	< 11.00 MF/L
	PNTX1205X004EMSA	Pending Validation	7 MF/L	< 12.00 MF/L
	PNTX1205X004EMSB	Pending Validation	7 MF/L	< 11.00 MF/L
	PNTX1206X004EMSA	Pending Validation	7 MF/L	< 1.00 MF/L
	PNTX1206X004EMSB	Pending Validation	7 MF/L	< 1.70 MF/L
	PNTX1207X004EMS	Pending Validation	7 MF/L	< 1.70 MF/L
	PNTX1203X004EMSA	Pending Validation	7 MF/L	1.10 MF/L Amosite
	PNTX1205X004EMSB	Pending Validation	7 MF/L	< 5.30 MF/L
PNTX1209X004EMSA	Pending Validation	7 MF/L	< 1.70 MF/L	
WS006	PNTX1130X006ESMB	Pending Validation	7 MF/L	21.00 MF/L Chrysotile

\* The data presented is preliminary, and has not undergone the full QA/QC process. Not all results received.

† Drinking Water MCL

### Screening Comparison Color Code

- Asbestos Detected
- Asbestos Not Detected
- Detected Above Level

# South 4 Group Fire

Asbestos Water Results - Results through Dec 11, 2019\*

Location Code	Primary Identifier	Validation Level	Screening Value†	Asbestos
WS006	PNTX1201X006EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1201X006EMSB	Pending Validation	7 MF/L	< 5.40 MF/L
	PNTX1202X006EMSA	Pending Validation	7 MF/L	< 5.40 MF/L
	PNTX1202X006EMSB	Pending Validation	7 MF/L	1.80 MF/L Chrysotile
	PNTX1203X006EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1203X006EMSB	Pending Validation	7 MF/L	1.10 MF/L Chrysotile
	PNTX1204X006EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1204X006EMSB	Pending Validation	7 MF/L	< 1.80 MF/L
	PNTX1205X006EMSA	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1205X006EMSB	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1206X006EMSA	Pending Validation	7 MF/L	< 1.00 MF/L
	PNTX1206X006EMSB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1207X006EMS	Pending Validation	7 MF/L	< 1.70 MF/L
	PNTX1208X006EMSA	Pending Validation	7 MF/L	1.10 MF/L Chrysotile
	PNTX1208X006EMSB	Pending Validation	7 MF/L	< 5.20 MF/L
	PNTX1209X006EMSA	Pending Validation	7 MF/L	< 1.70 MF/L
	PNTX1210X006EMS	Pending Validation	7 MF/L	< 53.00 MF/L
PNTX1211X006EMS	Pending Validation	7 MF/L	< 1.10 MF/L	
WS007	PNTX1129X007ESM	Pending Validation	7 MF/L	< 1.10 MF/L
WS009	PNTX1201Y009EMS	Pending Validation	7 MF/L	< 11.00 MF/L
	PNTX1210Y009EMS	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1211Y009EMS	Pending Validation	7 MF/L	< 11.0 MF/L
	PNTX1211Y009EMSMS	Pending Validation	7 MF/L	< 1.30 MF/L
	PNTX1211Y009EMSMSD	Pending Validation	7 MF/L	< 2.60 MF/L
WS010	PNTX1201X010EMS	Pending Validation	7 MF/L	< 5.40 MF/L
	PNTX1202X010EMS	Pending Validation	7 MF/L	< 11.00 MF/L
	PNTX1203X010EMS	Pending Validation	7 MF/L	11.00 MF/L Amosite & Chrysotile
WS011	PNTX1202X011EMS	Pending Validation	7 MF/L	< 5.40 MF/L
WS014	PNTX1203X014EMS	Pending Validation	7 MF/L	< 5.40 MF/L
	PNTX1205X014EMSA	Pending Validation	7 MF/L	< 5.30 MF/L

\* The data presented is preliminary, and has not undergone the full QA/QC process. Not all results received.

† Drinking Water MCL

### Screening Comparison Color Code

- Asbestos Detected
- Asbestos Not Detected
- Detected Above Level

# South 4 Group Fire

Asbestos Water Results - Results through Dec 11, 2019\*

Location Code	Primary Identifier	Validation Level	Screening Value†	Asbestos
WS014	PNTX1205X014EMSB	Pending Validation	7 MF/L	< 5.20 MF/L
	PNTX1206X014EMSA	Pending Validation	7 MF/L	< 1.70 MF/L
	PNTX1206X014EMSB	Pending Validation	7 MF/L	< 1.80 MF/L
	PNTX1207X014EMS	Pending Validation	7 MF/L	< 11.0 MF/L
	PNTX1207X014EMSMS	Pending Validation	7 MF/L	11.0 MF/L Chrysotile
	PNTX1207X014EMMSD	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1208X014EMS	Pending Validation	7 MF/L	< 2.60 MF/L
	PNTX1209X014EMSA	Pending Validation	7 MF/L	< 5.20 MF/L
WS015	PNTX1204X015EMS	Pending Validation	7 MF/L	< 11.00 MF/L
	PNTX1206X015EMS	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1207X015EMS	Pending Validation	7 MF/L	< 2.60 MF/L
	PNTX1208V015EMSB	Pending Validation	7 MF/L	< 11.0 MF/L
	PNTX1208X015EMSA	Pending Validation	7 MF/L	5.30 MF/L Chrysotile
	PNTX1208X015EMSB	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1209X015EMSA	Pending Validation	7 MF/L	< 5.20 MF/L
WS016	PNTX1206X016EMS	Pending Validation	7 MF/L	2.70 MF/L Chrysotile
WS021	PNTX1206X021EMS	Pending Validation	7 MF/L	< 1.10 MF/L
WS022	PNTX1208X022EMS	Pending Validation	7 MF/L	< 11.0 MF/L
WS023	PNTX1211X023EMS	Pending Validation	7 MF/L	< 1.70 MF/L
WS024	PNTX1211X024EMS	Pending Validation	7 MF/L	< 17.0 MF/L

\* The data presented is preliminary, and has not undergone the full QA/QC process. Not all results received.

† Drinking Water MCL

### Screening Comparison Color Code

- Asbestos Detected
- Asbestos Not Detected
- Detected Above Level